WEST Search History

Hide Items Restore Clear Cancel

DATE: Monday, October 18, 2004

Hide?	Set Name	Query	Hit Count
	DB=PGPB	,USPT,USOC,EPAB,JPAB,DWPI; PLUR=1	YES; OP=ADJ
	L14	neuropeptide receptor	429
	L13	L12 AND neuropeptide receptor	78
	L12	530/300,350.CCLS.	17143
	L11	Rosen.IN.	6423
	L10	Rosen-C.IN.	19
	L9	Rosen-C-A.IN.	590
	L8	Rosen-Craig.IN.	10
	L7	Rosen-Craig-A.IN.	657
	L6	Li.IN.	54090
	L5	Li-Y.IN.	4340
	L4	Li-Yi.IN.	240
	L3	Soppet.IN.	289
	L2	Soppet-D.IN.	5
	L1	(Soppet-Daniel.IN.)	2

END OF SEARCH HISTORY

Hit List

Clear Generate Collection Print Fwd Refs Bkwd Refs Generate OACS

Search Results - Record(s) 1 through 2 of 2 returned.

1. Document ID: US 20020081301 A1

Using default format because multiple data bases are involved.

L1: Entry 1 of 2

File: PGPB

Jun 27, 2002

PGPUB-DOCUMENT-NUMBER: 20020081301

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020081301 A1

TITLE: Cancer gene determination and therapeutic screening using signature gene sets

PUBLICATION-DATE: June 27, 2002

INVENTOR-INFORMATION:

NAME

CITY

STATE

COUNTRY

RULE-47

Soppet, Daniel

Centreville

VA

US

US-CL-CURRENT: 424/155.1; 435/6, 514/1

Full Title Citation Front Review	Classification Date Reference Sequences Attachments Claims KMC Draw Desc	

2. Document ID: US 6338951 B1

L1: Entry 2 of 2

File: USPT

Jan 15, 2002

US-PAT-NO: 6338951

DOCUMENT-IDENTIFIER: US 6338951 B1

** See image for Certificate of Correction **

TITLE: G-protein parathyroid hormone receptor HLTDG74

DATE-ISSUED: January 15, 2002

INVENTOR-INFORMATION:

NAME CITY

STATE ZIP CODE

COUNTRY

Soppet; Daniel

Centreville

VA

Li; Yi Rosen; Craig A. Gaithersburg Laytonsville MD MD

Ruben; Steven M.

Olney

MD

US-CL-CURRENT: 435/69.1; 435/69.7, 514/12, 530/324, 530/350, 530/395, 530/402

ABSTRACT:

Human G-protein parathyroid hormone (PTH) receptor polypeptides and DNA (RNA) encoding such polypeptides and a procedure for producing such polypeptides by

h eb b g ee ef e heh ef b

recombinant techniques is disclosed. Also disclosed are methods for utilizing such polypeptides for identifying antagonists and agonists to such polypeptides and methods of using the agonists and antagonists therapeutically to treat conditions related to the underexpression and overexpression of the PTH receptor receptor polypeptides. Also disclosed are diagnostic methods for detecting a mutation in the PTH receptor receptor nucleic acid sequences and detecting a level of the soluble form of the receptors in a sample derived from a host.

22 Claims, 10 Drawing figures Exemplary Claim Number: 1,16 Number of Drawing Sheets: 10

Full: Title Citation Front Review	Classification Date	Reference	Claims KOMC Draw Desi
Clear Generate Collection	Print	Fwd Refs Bkwd Refs	Generate OACS
Terms		Documents	
(Soppet-Daniel.IN.)			2

Display Format: - Change Format

Previous Page Next Page Go to Doc#

e

Hit List

Clear Generate Collection Print Fwd Refs Bkwd Refs Generate OACS

Search Results - Record(s) 1 through 5 of 5 returned.

1. Document ID: US 20040115625 A1, WO 200194629 A2, AU 200164559 A, US 20020081301 A1, US 20020102531 A1, US 20020102532 A1, US 20020110821 A1, US 20020115057 A1, US 20020115085 A1, US 20020150877 A1, US 20020165180 A1, US 20030165839 A1, EP 1358349 A2, JP 2004509612 W

Using default format because multiple data bases are involved.

L2: Entry 1 of 5

File: DWPI

Jun 17, 2004

DERWENT-ACC-NO: 2002-188264

DERWENT-WEEK: 200440

COPYRIGHT 2004 DERWENT INFORMATION LTD

TITLE: Screening for anti-neoplastic agent involves exposing cells to a chemical agent to be tested for anti-neoplastic activity, and determining a change in expression of a gene of a signature gene set

INVENTOR: AUGUSTUS, M; CARTER, K C; EBNER, R; ENDRESS, G; HORRIGAN, S; SOPPET, D R; WEAVER, Z; YOUNG, P E; SOPPET, D; YOUNG, P

PRIORITY-DATA: 2000US-245084P (November 1, 2000), 2000US-209473P (June 5, 2000), 2000US-209531P (June 5, 2000), 2000US-233133P (September 18, 2000), 2000US-233617P (September 18, 2000), 2000US-234009P (September 20, 2000), 2000US-234034P (September 20, 2000), 2000US-234052P (September 20, 2000), 2000US-234509P (September 22, 2000), 2000US-234567P (September 22, 2000), 2000US-234923P (September 25, 2000), 2000US-234924P (September 25, 2000), 2000US-235077P (September 25, 2000), 2000US-235082P (September 25, 2000), 2000US-235134P (September 25, 2000), 2000US-235280P (September 25, 2000), 2000US-235637P (September 26, 2000), 2000US-235638P (September 26, 2000), 2000US-235711P (September 27, 2000), 2000US-235720P (September 27, 2000), 2000US-235840P (September 27, 2000), 2000US-235863P (September 27, 2000), 2000US-236028P (September 28, 2000), 2000US-236032P (September 28, 2000), 2000US-236033P (September 28, 2000), 2000US-236034P (September 28, 2000), 2000US-236109P (September 28, 2000), 2000US-236111P (September 28, 2000), 2000US-236842P (September 29, 2000), 2000US-236891P (September 29, 2000), 2000US-237172P (October 2, 2000), 2000US-237173P (October 2, 2000), 2000US-237278P (October 2, 2000), 2000US-237294P (October 2, 2000), 2000US-237295P (October 2, 2000), 2000US-237316P (October 2, 2000), 2000US-237425P (October 3, 2000), 2000US-237598P (October 3, 2000), 2000US-237604P (October 3, 2000), 2000US-237606P (October 3, 2000), 2000US-237608P (October 3, 2000), 2000US-244867P (November 1, 2000), 2001US-0962436 (September 25, 2001), 2001US-0964824 (September 27, 2001), 2001US-0969708 (October 3, 2001), 2001US-0962832 (September 25, 2001), 2001US-0954456 (September 18, 2001), 2001US-0969347 (October 2, 2001), 2001US-0967768 (September 28, 2001), 2001US-0954531 (September 18, 2001), 2001US-0873367 (June 5, 2001), 2001US-0968007 (October 2, 2001)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
US 20040115625 A1	June 17, 2004		000	C12Q001/68
WO 200194629 A2	December 13, 2001	E	044	C12Q001/68
AU 200164559 A	December 17, 2001		000	
US 20020081301 A1	June 27, 2002		000	C12Q001/68
US 20020102531 A1	August 1, 2002		000	C12Q001/00
US 20020102532 A1	August 1, 2002		000	C12Q001/00

h e b b g e e e f e h eh ef b e

Jun 6, 2000

US 20020110821 A1	August 15, 2002		000	C12Q001/68
US 20020115057 A1	August 22, 2002		000	C12Q001/00
US 20020115085 A1	August 22, 2002		000	C12Q001/68
US 20020150877 A1	October 17, 2002		000	C12Q001/00
US 20020165180 A1	November 7, 2002		000	A61K038/17
US 20030165839 A1	September 4, 2003		000	C12Q001/68
EP 1358349 A2	November 5, 2003	E	000	C12Q001/68
JP 2004509612 W	April 2, 2004		083.	C12N015/09

A2 , JP 2004509612 W INT-CL (IPC): $\underline{A61}$ K $\underline{31/00}$; $\underline{A61}$ K $\underline{38/17}$; $\underline{A61}$ K $\underline{39/395}$; $\underline{A61}$ K $\underline{48/00}$; $\underline{C07}$ H $\underline{21/04}$; $\underline{C12}$ N $\underline{15/09}$; $\underline{C12}$ Q $\underline{1/00}$; $\underline{C12}$ Q $\underline{1/02}$; $\underline{C12}$ Q $\underline{1/68}$; $\underline{G01}$ N $\underline{33/50}$; $\underline{G01}$ N $\underline{33/566}$; $\underline{G01}$ N $\underline{33/574}$

Full	Title	Citation Front Review Classification Date Reference Claims KMC Draw Des
1	2.	Document ID: US 6071709 A

File: DWPI

DERWENT-ACC-NO: 2000-411191

DERWENT-WEEK: 200035

L2: Entry 2 of 5

COPYRIGHT 2004 DERWENT INFORMATION LTD

TITLE: Detecting presence of neurotrophic factor or tyrosine kinase related oncogene receptor for diagnosing neurodegenerative diseases involves detecting tyrosine phosphorylation in a suspected sample

INVENTOR: KAPLAN, D; MARTIN-ZANCA, D; PARADA, L F; SOPPET, D

PRIORITY-DATA: 1992US-0890713 (May 29, 1992), 1991US-0668298 (March 14, 1991)

PATENT-FAMILY:

 PUB-NO
 PUB-DATE
 LANGUAGE
 PAGES
 MAIN-IPC

 US 6071709 A
 June 6, 2000
 027
 G01N033/567

INT-CL (IPC): $\underline{G01} \ \underline{N} \ 33/567$

ABSTRACTED-PUB-NO: US 6071709A

BASIÇ-ABSTRACT:

NOVELTY - Detecting a neurotrophic factor (NF) comprises contacting cells expressing tyrosine kinase(trk)-B-proto-oncogene receptor protein (TRP) with a putative NF and comparing the amount of phosphorylation of TRP in the cells, where an increase in phosphorylation compared with a control indicates presence of a NF.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for a method of detecting a trk-proto-oncogene receptor protein in a sample comprising:

(1) contacting nerve growth factor (NGF) with a biological sample suspected of containing TRP and detecting any phosphorylation in the sample which indicates the presence of NGF.

USE - Identifying NF and TRP is useful for diagnosing degenerated neuronal diseases such as Alzheimer's and Huntington's disease in suspected patients, for diagnosing a tissue undergoing a neuronal regeneration and for designing compositions to treat neurodegenerative diseases.

Full Title Citation Front Review Classification Date Reference

3. Document ID: WO 9854963 A2, AU 9878120 A, EP 1039801 A1, JP 2002516573 W, US 20030092893 A1, EP 1428833 A2

L2: Entry 3 of 5

File: DWPI

Dec 10, 1998

DERWENT-ACC-NO: 1999-059865

DERWENT-WEEK: 200462

COPYRIGHT 2004 DERWENT INFORMATION LTD

TITLE: New isolated human genes and the secreted polypeptides they encode - useful for diagnosis and treatment of e.g. cancers, neurological disorders, immune diseases, inflammation or blood disorders

INVENTOR: BREWER, L A; CARTER, K; DILLON, P; EBNER, R; ENDRESS, G; FAN, P; FENG, P; FERRIE, A M; FISCHER, C; FLORENCE, C; FLORENCE, K; GREENE, J; HU, J; KYAW, H; LAFLEUR, D; LI, Y; MOORE, P A; NI, J; OLSEN, H; ROSEN, C; RUBEN, S; SHI, Y E; SOPPET, D; WEI, Y; YOUNG, P; YU, G; ZENG, Z; CARTER, K C; DILLON, P J; ENDRESS, G A; FISCHER, C L; GREENE, J M; LAFLEUR, D W; MORE, P A; OLSEN, H S; ROSEN, C A; RUBEN, S M; SHI, Y; SOPPET, D R

PRIORITY-DATA: 1997US-070923P (December 18, 1997), 1997US-048875P (June 6, 1997), 1997US-048876P (June 6, 1997), 1997US-048877P (June 6, 1997), 1997US-048878P (June 6, 1997), 1997US-048880P (June 6, 1997), 1997US-048881P (June 6, 1997), 1997US-048882P (June 6, 1997), 1997US-048883P (June 6, 1997), 1997US-048884P (June 6, 1997), 1997US-048885P (June 6, 1997), 1997US-048892P (June 6, 1997), 1997US-048893P (June 6, 1997), 1997US-048894P (June 6, 1997), 1997US-048895P (June 6, 1997), 1997US-048896P (June 6, 1997), 1997US-048897P (June 6, 1997), 1997US-048898P (June 6, 1997), 1997US-048899P (June 6, 1997), 1997US-048900P (June 6, 1997), 1997US-048901P (June 6, 1997), 1997US-048915P (June 6, 1997), 1997US-048916P (June 6, 1997), 1997US-048917P (June 6, 1997), 1997US-048949P (June 6, 1997), 1997US-048962P (June 6, 1997), 1997US-048963P (June 6, 1997), 1997US-048964P (June 6, 1997), 1997US-048970P (June 6, 1997), 1997US-048971P (June 6, 1997), 1997US-048972P (June 6, 1997), 1997US-048974P (June 6, 1997), 1997US-049019P (June 6, 1997), 1997US-049020P (June 6, 1997), 1997US-049373P (June 6, 1997), 1997US-049374P (June 6, 1997), 1997US-049375P (June 6, 1997), 1997US-057584P (September 5, 1997), 1997US-057627P (September 5, 1997), 1997US-057628P (September 5, 1997), 1997US-057629P (September 5, 1997), 1997US-057634P (September 5, 1997), 1997US-057635P (September 5, 1997), 1997US-057642P (September 5, 1997), 1997US-057643P (September 5, 1997), 1997US-057644P (September 5, 1997), 1997US-057645P (September 5, 1997), 1997US-057646P (September 5, 1997), 1997US-057647P (September 5, 1997), 1997US-057648P (September 5, 1997), 1997US-057649P (September 5, 1997), 1997US-057650P (September 5, 1997), 1997US-057651P (September 5, 1997), 1997US-057654P (September 5, 1997), 1997US-057661P (September 5, 1997), 1997US-057662P (September 5, 1997), 1997US-057666P (September 5, 1997), 1997US-057667P (September 5, 1997), 1997US-057668P (September 5, 1997), 1997US-057760P (September 5, 1997), 1997US-057761P (September 5, 1997), 1997US-057762P (September 5, 1997), 1997US-057763P (September 5, 1997), 1997US-057764P (September 5, 1997), 1997US-057765P (September 5, 1997), 1997US-057769P (September 5, 1997), 1997US-057770P (September 5, 1997), 1997US-057771P (September 5, 1997), 1997US-057774P (September 5, 1997), 1997US-057775P (September 5, 1997), 1997US-057776P (September 5, 1997), 1997US-057777P (September 5, 1997), 1997US-057778P (September 5, 1997), 1997US-049896P (June 6, 1997), 1998US-092921P (July 15, 1998), 1998US-094657P (July 30, 1998), 1998US-0205258 (December 4, 1998), 2001US-0023282 (December 20, 2001)

PATENT-FAMILY:

 PUB-NO
 PUB-DATE
 LANGUAGE
 PAGES
 MAIN-IPC

 WO 9854963 A2
 December 10, 1998
 E
 770
 A01N037/18

 AU 9878120 A
 December 21, 1998
 000

h eb bgeeef eheh ef be

EP 1039801 A1	October 4, 2000	E	000	A01N037/18
JP 2002516573 W	June 4, 2002		914	C12N015/09
US 20030092893 A1	May 15, 2003		000	C07K016/00
EP 1428833 A2	June 16, 2004	E	000	C07K014/435

INT-CL (IPC): A01 N 37/18; A01 N 43/04; A61 K 31/711; A61 K 38/00; A61 K 38/17; A61 K 39/395; A61 K 48/00; A61 P 7/00; A61 P 25/00; A61 P 29/00; A61 P 35/00; A61 P 37/00; A61 P 43/00; C07 K 14/435; C07 K 14/47; C07 K 16/00; C07 K 16/18; C12 N 1/15; C12 N 1/19; C12 N 1/20; C12 N 1/21; C12 N 5/00; C12 N 5/06; C12 N 5/10; C12 N 15/00; C12 N 1/00; C12

ABSTRACTED-PUB-NO: WO 9854963A BASIC-ABSTRACT:

An isolated nucleic acid molecule (NAM) (I) comprising a polynucleotide (PN) having a nucleotide sequence (NS) at least 95% identical to: (a) a PN fragment of one of a total of 207 defined human cDNA sequences given in the specification or a PN fragment of the cDNA sequence included in ATCC Deposit No. Z which is hybridisable to one of the 207 defined cDNA sequence; (b) a PN which is an (allelic) variant of one of the 207 defined cDNA sequences; (c) a PN encoding a biologically active polypeptide or a polypeptide fragment, domain or epitope of one of the 207 defined amino acid sequences given in the specification or a polypeptide fragment encoded by a cDNA sequence included in ATCC Deposit No. Z which is hybridisable to one of the defined cDNA sequences; (d) a PN which encodes a species homologue of one of the 207 defined polypeptides; or (e) a PN capable of hybridising under stringent conditions to any one of the PNs specified in (a)-(d), where the PN does not hybridise under stringent conditions to a sequence of only A residues or of only T residues. Also claimed are: (1) a recombinant vector comprising (I); (2) a method of making a recombinant host cell comprising (I); (3) a recombinant host cell produced by a method as in (2); (4) an isolated polypeptide comprising an amino acid sequence at least 95% identical to a sequence selected from a polypeptide fragment (preferably having biological activity), domain, epitope, secreted form, full-length protein, (allelic) variant or species homologue of one of the 207 defined amino acid sequences or the encoded sequence included in ATCC Deposit No. Z; (5) an isolated antibody that binds specifically to an isolated polypeptide as in (4); (6) a recombinant host cell that expresses an isolated polypeptide as above; and (7) a gene corresponding to a cDNA sequence of the 207 defined amino acid sequences.

Note: From the disclosure 'ATCC Deposit No. Z' refers to the representative clones, each containing a subset of the defined cDNA sequences, which have been deposited with the ATCC. The deposit numbers are: ATCC 97979, 97974, 97975, 97976, 97977, 209007, 209008, 209009, 209010, 209011, 209080, 209081, 209082, 209083, 209084, 209085, 209511,.

USE The PNs and their corresponding secreted polypeptides are useful for preventing, treating or ameliorating medical conditions (claimed), e.g. by protein or gene therapy. Also pathological conditions can be diagnosed by determining the amount of the new polypeptides in a sample or by determining the presence of mutations in the new PNs (claimed). Specific uses are described for each of the 207 PNs, based on which tissues they are most highly expressed in, and include developing products for the diagnosis or treatment of cancer, tumours, neurodegenerative disorders, developmental abnormalities and foetal deficiencies, blood disorders, leukemias, diseases of the immune system, autoimmune diseases, hepatic and renal disease, lymphomas, inflammation, allergies, ischemic shock, Alzheimer's and cognitive disorders, schizophrenia, restenosis, prostate diseases, obesity, disorders involving osteoclasts such as osteoporosis, arthritis or malignancies, diseases of testes, lung or thymus, digestive/endocrine disorders, infections and AIDS. The polypeptides are also useful for identifying their binding partners (claimed).

Full: Title Citation Front Review Classification Date Reference

4. Document ID: JP 2003033192 A, WO 9639433 A1, AU 9526973 A, EP 832123 A1, JP 11507810 W, US 6030804 A, US 6338951 B1, US 20020086363 A1

L2: Entry 4 of 5

File: DWPI

Feb 4, 2003

DERWENT-ACC-NO: 1997-043068

DERWENT-WEEK: 200320

COPYRIGHT 2004 DERWENT INFORMATION LTD

TITLE: Human G-protein parathyroid hormone receptor, HLTDG74 - used to identify (ant) agonists, used in the treatment of hypo- or hyper-calcaemia, hypo- or hyper-phosphatemia, kidney stones, etc

INVENTOR: LI, Y; ROSEN, C A; RUBEN, S M; SOPPET, D R; SOPPET, D

PRIORITY-DATA: 1995WO-US07085 (June 5, 1995), 1995US-0468011 (June 6, 1995), 1999US-0236468 (January 25, 1999), 2001US-0996569 (November 30, 2001), 2002JP-0137833 (June 5, 1995)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 2003033192 A	February 4, 2003		023	C12N015/09
WO 9639433 A1	December 12, 1996	E	062	C07K014/705
AU 9526973 A	December 24, 1996		000	C07K014/705
EP 832123 A1	April 1, 1998	E	000	C07K014/705
JP 11507810 W	July 13, 1999		056	C12N015/09
US 6030804 A	February 29, 2000		000	C12N015/12
US 6338951 B1	January 15, 2002		000	C07K014/72
US 20020086363 A1	July 4, 2002		000	C12P021/02

INT-CL (IPC): A61 K 35/76; A61 K 38/00; A61 K 39/395; A61 K 48/00; A61 P 3/14; A61 P 5/00; A61 P 13/12; A61 P 19/10; A61 P 43/00; C07 H 21/04; C07 K 14/705; C07 K 14/705; C07 K 14/705; C12 N 1/21; C12 N 5/06; C12 N 5/10; C12 N 15/09; C12 N 15/12; C12 P 21/02; C12 P 21/08; C12 Q 1/02; G01 N 33/15; G01 N 33/50; G01 N 33/567; C12 N 1/21; C12 R 1:19; C12 P 21/02; C12 P 21/02; C12 R 1:19; C12 P 21/02; C12 P 21

ABSTRACTED-PUB-NO: US 6030804A

BASIC-ABSTRACT:

A novel isolated polynucleotide (I) comprises a member selected from: (a) a polynucleotide of 1914 bp encoding the polypeptide of 541 residues given in the specification; (b) a polynucleotide encoding a mature polypeptide encoding by the DNA deposited as ATCC 97186; (c) a polynucleotide capable of hybridising to, and which is at least 70% identical to the nucleotide sequence of (a) or (b); and (d) a polynucleotide fragment of the nucleotide sequences of (a), (b) or (c).

USE - The cpds. of (6) may be used for the treatment of patients which need to activate or inhibit a G-protein coupled receptor (claimed). Mutations in (I) or the corresp. protein may be identified by sequence analysis. Agonists cpds. may be used to prevent and/or treat hypocalcaemia, hyperphosphatemia, hypoparathyroidism and chronic tetany by stimulating an increase in serum calcium levels. Antagonist cpds. may be used to treat and/or prevent osteoporosis, hypercalcaemia, hypoparathyroidism, hypophosphatemia, kidney stone and nephrolithiasis.

ABSTRACTED-PUB-NO:

US 6338951B EQUIVALENT-ABSTRACTS:

A novel isolated polynucleotide (I) comprises a member selected from: (a) a

h eb bgeeef eheh ef be

Apr 1, 1993

Record List Display

polynucleotide of 1914 bp encoding the polypeptide of 541 residues given in the specification; (b) a polynucleotide encoding a mature polypeptide encoding by the DNA deposited as ATCC 97186; (c) a polynucleotide capable of hybridising to, and which is at least 70% identical to the nucleotide sequence of (a) or (b); and (d) a polynucleotide fragment of the nucleotide sequences of (a), (b) or (c).

USE - The cpds. of (6) may be used for the treatment of patients which need to activate or inhibit a G-protein coupled receptor (claimed). Mutations in (I) or the corresp. protein may be identified by sequence analysis. Agonists cpds. may be used to prevent and/or treat hypocalcaemia, hyperphosphatemia, hypoparathyroidism and chronic tetany by stimulating an increase in serum calcium levels. Antagonist cpds. may be used to treat and/or prevent osteoporosis, hypercalcaemia, hypoparathyroidism, hypophosphatemia, kidney stone and nephrolithiasis.

A novel isolated polynucleotide (I) comprises a member selected from: (a) a polynucleotide of 1914 bp encoding the polypeptide of 541 residues given in the specification; (b) a polynucleotide encoding a mature polypeptide encoding by the DNA deposited as ATCC 97186; (c) a polynucleotide capable of hybridising to, and which is at least 70% identical to the nucleotide sequence of (a) or (b); and (d) a polynucleotide fragment of the nucleotide sequences of (a), (b) or (c).

USE - The cpds. of (6) may be used for the treatment of patients which need to activate or inhibit a G-protein coupled receptor (claimed). Mutations in (I) or the corresp. protein may be identified by sequence analysis. Agonists cpds. may be used to prevent and/or treat hypocalcaemia, hyperphosphatemia, hypoparathyroidism and chronic tetany by stimulating an increase in serum calcium levels. Antagonist cpds. may be used to treat and/or prevent osteoporosis, hypercalcaemia, hypoparathyroidism, hypophosphatemia, kidney stone and nephrolithiasis.

US20020086363A

A novel isolated polynucleotide (I) comprises a member selected from: (a) a polynucleotide of 1914 bp encoding the polypeptide of 541 residues given in the specification; (b) a polynucleotide encoding a mature polypeptide encoding by the DNA deposited as ATCC 97186; (c) a polynucleotide capable of hybridising to, and which is at least 70% identical to the nucleotide sequence of (a) or (b); and (d) a polynucleotide fragment of the nucleotide sequences of (a), (b) or (c).

USE - The cpds. of (6) may be used for the treatment of patients which need to activate or inhibit a G-protein coupled receptor (claimed). Mutations in (I) or the corresp. protein may be identified by sequence analysis. Agonists cpds. may be used to prevent and/or treat hypocalcaemia, hyperphosphatemia, hypoparathyroidism and chronic tetany by stimulating an increase in serum calcium levels. Antagonist cpds. may be used to treat and/or prevent osteoporosis, hypercalcaemia, hypoparathyroidism, hypophosphatemia, kidney stone and nephrolithiasis.

WO 9639433A

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | Claims | KMC | Draw Description | St. | Document ID: US N7890713 N

File: DWPI

DERWENT-ACC-NO: 1993-152039

DERWENT-WEEK: 200173

L2: Entry 5 of 5

COPYRIGHT 2004 DERWENT INFORMATION LTD

TITLE: Complexes of tyrosine receptor kinase - with nerve growth factors, used for study, diagnosis and treatment of neuro-degenerative diseases

h eb bgeeef eheh ef b

Record List Display

INVENTOR: KAPLAN, D; MARTIN-ZANCA, D; PARADA, L; SOPPET, D

PRIORITY-DATA: 1991US-0890713 (March 14, 1991)

PATENT-FAMILY:

 PUB-NO
 PUB-DATE
 LANGUAGE
 PAGES
 MAIN-IPC

 US N7890713 N
 April 1, 1993
 071
 C12N000/00

INT-CL (IPC): C12N 0/00

ABSTRACTED-PUB-NO: US 7890713A

BASIC-ABSTRACT:

The following are disclosed: (A) complex comprising nerve growth factor (NGF) and tyrosine receptor kinase (trk) proto-oncogene protein, where the complex is free of protein with which it is naturally associated; (B) a complex of neurotrophin-3 (NT-3) or brain-derived neurotrophic factor (BDNF) and trkB-proto-oncogene protein, where the complex is free of protein with which it is naturally associated; (C) a method of detecting the NGF:trk-proto-oncogene receptor complex, NT-3:trkB proto-oncogene receptor complex or BDNF:trkB proto-oncogene receptor complex in a sample which comprises contacting the sample with an antibody that binds specifically with NGF, NT-3, BDNF, trk- or trkB-proto-oncogene receptor protein of the complex, a positive immunological reaction indicating the presence of the complex; (D) a method of diagnosing degenerative neuronal diseases in a patient, which comprises contacting a sample of diseased tissue with an antibody that binds with one of the complexes as in (C) and detecting complex formation; (E) a method of diagnosing a tissue undergoing neuronal regeneration in a patient, which comprises contacting a sample of the tissue with an antibody that binds to one of the tissues as in (C) and assaying for the presence of resulting complex; (F) a method of detecting NGF, NT-3 or BDNF in a sample which comprises contacting the sample with trk or trkB-proto-oncogene receptor protein and detecting the presence of bound NGF, NT-3 or BDNF; (G) a method of detecting trk or trkB-proto-oncogene receptor protein in a sample using NGF, NT-3 or BDNF as a binding agent; (H) a method of detecting neurotrophic factor receptor/ligand complexes that are structurally and functionally related to trk and NGF comprising using the methods described above for detecting trk:NGF, trkB:NT-3 and trkB:BDNF complexes.

USE - The methods can be used for the diagnosis of neurodegenerative diseases that affect NGF-dependent neurons such as Alzheimer's and Huntington's disease. The methods can also be used to study nerve survival and regeneration and to develop therapeutic methods for treating such diseases

The following are disclosed: (A) complex comprising nerve growth factor (NGF) and tyrosine receptor kinase (trk) proto-oncogene protein, where the complex is free of protein with which it is naturally associated; (B) a complex of neurotrophin-3 (NT-3) or brain-derived neurotrophic factor (BDNF) and trkB-proto-oncogene protein, where the complex is free of protein with which it is naturally associated; (C) a method of detecting the NGF:trk-proto-oncogene receptor complex, NT-3:trkB proto-oncogene receptor complex or BDNF:trkB proto-oncogene receptor complex in a sample which comprises contacting the sample with an antibody that binds specifically with NGF, NT-3, BDNF, trk- or trkB-proto-oncogene receptor protein of the complex, a positive immunological reaction indicating the presence of the complex; (D) a method of diagnosing degenerative neuronal diseases in a patient, which comprises contacting a sample of diseased tissue with an antibody that binds with one of the complexes as in (C) and detecting complex formation; (E) a method of diagnosing a tissue undergoing neuronal regeneration in a patient, which comprises contacting a sample of the tissue with an antibody that binds to one of the tissues as in (C) and assaying for the presence of resulting complex; (F) a method of detecting NGF, NT-3 or BDNF in a sample which comprises contacting the sample with trk or trkB-proto-oncogene receptor protein and detecting the presence of bound NGF, NT-3 or BDNF; (G) a method of detecting trk or trkB-proto-oncogene receptor protein in a sample using NGF, NT-3 or BDNF as a binding agent; (H) a method of detecting neurotrophic factor

receptor/ligand complexes that are structurally and functionally related to trk and NGF comprising using the methods described above for detecting trk:NGF, trkB:NT-3 and trkB:BDNF complexes.

USE - The methods can be used for the diagnosis of neurodegenerative diseases that affect NGF-dependent neurons such as Alzheimer's and Huntington's disease. The methods can also be used to study nerve survival and regeneration and to develop therapeutic methods for treating such diseases ABSTRACTED-PUB-NO:

US N7890713N EQUIVALENT-ABSTRACTS:

Tifull Tit	le Citation	Front F	Review Clas			Reference				Claims	KWIC	Draw Des
	***************************************		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	•••••••••	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				*************	************		
Clear	Gene	rate Colle	ection	Pnnt		wd Refs		3kwd Re	ds	Genei	ate O	AGS
[a	Terms					Dogu	monta					
	Soppet-D.I	 N.			-	Docu	ments				5	
<u></u>				************					************		<u> </u>	

Previous Page Next Page Go to Doc#

Hit List

Clear Generate Collection Print Fwd Refs Bkwd Refs Generate OACS

Search Results - Record(s) 1 through 10 of 10 returned.

1. Document ID: US 20020146778 A1

Using default format because multiple data bases are involved.

L8: Entry 1 of 10

File: PGPB

Oct 10, 2002

PGPUB-DOCUMENT-NUMBER: 20020146778

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020146778 A1

TITLE: Pineal gland specific gene-1

PUBLICATION-DATE: October 10, 2002

INVENTOR-INFORMATION:

NAME

CITY

STATE

COUNTRY

RULE-47

He, Wei Wu

Columbia

MD

US

Rosen, Craig

Laytonsville

MD

US

US-CL-CURRENT: 435/69.4; 435/320.1, 435/325, 530/399, 536/23.5

Full Title Citation Front	Review	Classification	Date	Reference	Sequences	Attachments Claims	KOMO	Draw Desc
								· · · · ·

2. Document ID: US 20020086314 A1

L8: Entry 2 of 10

File: PGPB

Jul 4, 2002

PGPUB-DOCUMENT-NUMBER: 20020086314

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020086314 A1

TITLE: Colon specific genes and proteins

PUBLICATION-DATE: July 4, 2002

INVENTOR-INFORMATION:

NAME

CITY

STATE

COUNTRY

RULE-47

Yu, Guo-Liang

Berkeley

CA

US

Rosen, Craig

Laytonsville

MD

US

US-CL-CURRENT: $\underline{435/6}$; $\underline{435/196}$, $\underline{435/320.1}$, $\underline{435/325}$, $\underline{435/69.1}$, $\underline{435/7.23}$, $\underline{536/23.2}$

ABSTRACT:

Human colon specific gene polypeptides and DNA (RNA) encoding such polypeptides and a procedure for producing such polypeptides by recombinant techniques is disclosed. Also disclosed are methods for utilizing such polynucleotides or polypeptides as a

h e b b g e e e f e h eh ef b e

diagnostic marker for colon cancer and as an agent to determine if colon cancer has metastasized. Also disclosed are antibodies specific to the colon specific gene polypeptides which may be used to target cancer cells and be used as part of a colon cancer vaccine. Methods of screening for agonists and antagonists for the polypeptide and therapeutic uses of the antagonists are disclosed.

3	Full Title Citation	Front Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWAC	Diawa Desc

3. Document ID: US 20020042119 A1

L8: Entry 3 of 10

File: PGPB

Apr 11, 2002

PGPUB-DOCUMENT-NUMBER: 20020042119

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020042119 A1

TITLE: Novel Metalloproteinases

PUBLICATION-DATE: April 11, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Ni, Jian	Germantown	MD	US	
Ruben, Steve	Olney	MD	US	
Brewer, Laurie	St. Paul	MD	US	
Gentz, Reiner	Rockville	MD	US	
Rosen, Craiq	Laytonsville	MD	US	

US-CL-CURRENT: <u>435/219</u>; <u>435/320.1</u>, <u>435/325</u>, <u>435/69.1</u>, <u>536/23.2</u>

ABSTRACT:

The present invention relates to novel metalloproteinase-like proteins. In particular, isolated nucleic acid molecules are provided encoding the human TACE-like and matrilysin-like proteins. TACE-like and matrilysin-like polypeptides are also provided as are vectors, host cells and recombinant methods for producing the same. The invention further relates to screening methods for identifying agonists and antagonists of TACE-like and matrilysin-like activity. Also provided are diagnostic methods for detecting cancer and therapeutic methods for cancer and other disorders characterized by an over or under production of these metalloproteinases.

Full Title Citation Front Review	Classification Data	Reference	Seguences	Attachmente	Claime	VACCE:	Draw Doce
Tan the custom tout theneso	Classification Date	12012121122	condition seems	margical internet	Ciamo	14.00000	Criston Cless

4. Document ID: US 6608182 B1

L8: Entry 4 of 10

File: USPT

Aug 19, 2003

US-PAT-NO: 6608182

DOCUMENT-IDENTIFIER: US 6608182 B1

TITLE: Human vascular endothelial growth factor 2

DATE-ISSUED: August 19, 2003

h e b b g e e e f e h eh ef b

INVENTOR-INFORMATION:

NAME

CITY

STATE ZIP CODE

COUNTRY

Rosen; Craiq

Laytonsville

MD

Hu; Jing-Shan

Gaithersburg

MD

Cao; Liang

Monmouth Terrace

ΗK

US-CL-CURRENT: 530/399; 435/243, 435/320.1, 435/325, 435/69.1, 435/69.4, 530/300, 530/350, 530/402

ABSTRACT:

The present invention relates to polypeptides comprising amino acids 85 to 165 of SEQ ID NO:2, as well as polynucleotides which encode these polypeptides. Also provided are methods of treatment using these polypeptides.

21 Claims, 15 Drawing figures Exemplary Claim Number: 1 Number of Drawing Sheets: 15

Full	Title	Citation	Front	Review	Classification	Date	Reference		Claims	KMC	Draint Des

5. Document ID: US 6337195 B1

L8: Entry 5 of 10

File: USPT

Jan 8, 2002

US-PAT-NO: 6337195

DOCUMENT-IDENTIFIER: US 6337195 B1

** See image for Certificate of Correction **

TITLE: Colon specific genes and proteins

DATE-ISSUED: January 8, 2002

INVENTOR-INFORMATION:

NAME

CITY

STATE

COUNTRY

ZIP CODE

Yu; Guo-Liang

Darnestown

MD

Rosen; Craiq

Laytonsville

MD

US-CL-CURRENT: 435/70.1; 530/350, 536/22.1

ABSTRACT:

Human colon specific gene polypeptides and DNA (RNA) encoding such polypeptides and a procedure for producing such polypeptides by recombinant techniques is disclosed. Also disclosed are methods for utilizing such polypucleotides or polypeptides as a diagnostic marker for colon cancer and as an agent to determine if colon cancer has metastasized. Also disclosed are antibodies specific to the colon specific gene polypeptides which may be used to target cancer cells and be used as part of a colon cancer vaccine. Methods of screening for agonists and antagonists for the polypeptide and therapeutic uses of the antagonists are disclosed.

11 Claims, 17 Drawing figures Exemplary Claim Number: 1 Number of Drawing Sheets: 17

ef

6. Document ID: US 6312937 B1

L8: Entry 6 of 10

File: USPT

Nov 6, 2001

US-PAT-NO: 6312937

DOCUMENT-IDENTIFIER: US 6312937 B1

TITLE: Metalloproteinases

DATE-ISSUED: November 6, 2001

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Ni; Jian Rockville MD
Ruben; Steve Olney MD
Brewer; Laurie Poolesville MD
Gentz; Reiner Silver Spring MD
Rosen; Craig Laytonsville MD

US-CL-CURRENT: 435/219; 435/212, 435/226

ABSTRACT:

The present invention relates to novel metalloproteinase—like proteins. In particular, isolated nucleic acid molecules are provided encoding the human TACE—like and matrilysin—like proteins. TACE—like and matrilysin—like polypeptides are also provided as are vectors, host cells and recombinant methods for producing the same. The invention further relates to screening methods for identifying agonists and antagonists of TACE—like and matrilysin—like activity. Also provided are diagnostic methods for detecting cancer and therapeutic methods for cancer and other disorders characterized by an over or under production of these metalloproteinases.

30 Claims, 9 Drawing figures Exemplary Claim Number: 1 Number of Drawing Sheets: 9

Full 7 Titl	nt Review Clas	Reference		Claims	KWWC Drawn Desc
					•
r: 7	D. HC (2516)		·····	***************************************	

1.... 7. Document ID: US 6251648 B1

L8: Entry 7 of 10

File: USPT

Jun 26, 2001

US-PAT-NO: 6251648

DOCUMENT-IDENTIFIER: US 6251648 B1

TITLE: Gene encoding human Dnase

DATE-ISSUED: June 26, 2001

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Rosen; Craig Laytonsville MD

h eb b g ee ef e heh ef b

Ruben; Steven M.

Olney

MD

Adams; Mark D.

North Potomac

MD

US-CL-CURRENT: 435/199; 530/300, 530/324

ABSTRACT:

A human DNase polypeptide and DNA (RNA) encoding such polypeptide and a procedure for producing such polypeptide by recombinant techniques is disclosed. Also disclosed are methods for utilizing such polypeptide for preventing and/or treating bronchopulmonary conditions. Diagnostic assays for identifying mutations in nucleic acid sequence encoding a polypeptide of the present invention and for detecting altered levels of the polypeptide of the present invention are also disclosed.

51 Claims, 7 Drawing figures Exemplary Claim Number: 1 Number of Drawing Sheets: 7

Full Title Citation Front Review Classification	Date Reference	Glaims KMC Draw Desc
8. Document ID: US 6046031 A		
L8: Entry 8 of 10	File: USPT	Apr 4, 2000

US-PAT-NO: 6046031

DOCUMENT-IDENTIFIER: US 6046031 A

** See image for Certificate of Correction **

TITLE: Metalloproteinases

DATE-ISSUED: April 4, 2000

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY Ni; Jian Rockville MD Ruben; Steve Olney MD Brewer; Laurie Poolesville MD Gentz; Reiner Silver Spring MD Rosen; Craig Laytonsville MD

US-CL-CURRENT: 435/69.1; 435/219, 435/226, 435/252.33, 435/320.1, 435/325, 435/69.3, 536/23.1, 536/23.2, 536/23.5

ABSTRACT:

The present invention relates to novel metalloproteinase-like proteins. In particular, isolated nucleic acid molecules are provided encoding the human TACE-like and matrilysin-like proteins. TACE-like and matrilysin-like polypeptides are also provided as are vectors, host cells and recombinant methods for producing the same. The invention further relates to screening methods for identifying agonists and antagonists of TACE-like and matrilysin-like activity. Also provided are diagnostic methods for detecting cancer and therapeutic methods for cancer and other disorders characterized by an over or under production of these metalloproteinases.

e

60 Claims, 9 Drawing figures Exemplary Claim Number: 1

Number of Drawing Sheets: 9

Full Title Citation Front Review Classification Date Reference Claims KWIC Draw Desc

9. Document ID: US 5733748 A

L8: Entry 9 of 10

File: USPT

Mar 31, 1998

US-PAT-NO: 5733748

DOCUMENT-IDENTIFIER: US 5733748 A

TITLE: Colon specific genes and proteins

DATE-ISSUED: March 31, 1998

INVENTOR-INFORMATION:

NAME

CITY

STATE

ZIP CODE

COUNTRY

Jul 27, 1995

Yu; Guo-Liang

Darnestown

MD

Rosen; Craiq

Laytonsville

MD

US-CL-CURRENT: $\underline{435}/\underline{70.1}$; $\underline{435}/\underline{252.3}$, $\underline{435}/\underline{320.1}$, $\underline{435}/\underline{325}$, $\underline{536}/\underline{22.1}$, $\underline{536}/\underline{23.5}$

ABSTRACT:

Human colon specific gene polypeptides and DNA (RNA) encoding such polypeptides and a procedure for producing such polypeptides by recombinant techniques is disclosed. Also disclosed are methods for utilizing such polynucleotides or polypeptides as a diagnostic marker for colon cancer and as an agent to determine if colon cancer has metastasized. Also disclosed are antibodies specific to the colon specific gene polypeptides which may be used to target cancer cells and be used as part of a colon cancer vaccine. Methods of screening for agonists and antagonists for the polypeptide and therapeutic uses of the antagonists are disclosed.

20 Claims, 17 Drawing figures Exemplary Claim Number: 1 Number of Drawing Sheets: 17

Full	Title	Citation Front Review Classification Date Reference
**********	***********	
	10.	Document ID: WO 9519985 A1

File: EPAB

PUB-NO: WO009519985A1

L8: Entry 10 of 10

DOCUMENT-IDENTIFIER: WO 9519985 A1 TITLE: HAEMOPOIETIC MATURATION FACTOR

PUBN-DATE: July 27, 1995

INVENTOR-INFORMATION:

NAME

COUNTRY

KIRKNESS, EWEN ADAMS, MARK D

h eb b g ee ef e h eh ef b

OLSEN, HENRIK ROSEN, CRAIG

37/<u>00</u>

EUR-CL (EPC): C07K014/475

ABSTRACT:

Disclosed is a human maturation factor polypeptide and DNA(RNA) encoding such haemopoietic maturation factor polypeptides. Also provided is a procedure for producing such polypeptide by recombinant techniques and antibodies against such polypeptide. Such polypeptides may be combined with a suitable pharmaceutical carrier or diluent to provide diagnostic, therapeutic and/or prophylactic effects against various diseases related to the underexpression of such human haemopoietic maturation factor polypeptide.

Full Title Citation Front Review	Classification Date Reference	Claims KMC Draw Des
Clear Generate Collection	Print Fwd Refs Bkwd Refs	Generate OACS
	·	
Terms	Documents	
Rosen-Craig.IN.		10

Display Format:	-	Change Format
	\$	

<u>Previous Page</u> <u>Next Page</u> <u>Go to Doc#</u>

Hit List

Clear Generate Collection Print Fwd Refs Bkwd Refs Generate OACS

Search Results - Record(s) 1 through 19 of 19 returned.

1: Document ID: AU 2003219999 A1, US 20030175340 A1, WO 2003075884 A1, WO 2004035004 A2

Using default format because multiple data bases are involved.

L10: Entry 1 of 19

File: DWPI

Sep 22, 2003

Oct 10, 2002

DERWENT-ACC-NO: 2004-020713

DERWENT-WEEK: 200431

COPYRIGHT 2004 DERWENT INFORMATION LTD

TITLE: Effervescent composition useful for treating osteoporosis comprises a bisphosphonate, an acid component and an alkaline effervescing component

INVENTOR: MCCALLISTER, D; ROSEN, C

PRIORITY-DATA: 2002US-0273081 (October 17, 2002), 2002US-0092083 (March 6, 2002)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
AU 2003219999 A1	September 22, 2003	,	000	A61K009/00
US 20030175340 A1	September 18, 2003		013	A61K031/675
WO 2003075884 A1	September 18, 2003	E	000	A61K009/00
WO 2004035004 A2	April 29, 2004	E	000	A61K000/00

INT-CL (IPC): $\underline{A61}$ \underline{K} $\underline{0/00}$; $\underline{A61}$ \underline{K} $\underline{9/00}$; $\underline{A61}$ \underline{K} $\underline{9/46}$; $\underline{A61}$ \underline{K} $\underline{31/4439}$; $\underline{A61}$ \underline{K} $\underline{31/66}$; $\underline{A61}$ \underline{K} $\underline{31/663}$; $\underline{A61}$ \underline{K} $\underline{31/675}$

Full	Title	Citation Front	Review Classification	Date	Reference		Claims	KOME	Draw, Desc
								<u> </u>	
****************		***************************************	**************************************			•			
يسنو		_					 		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
LJ	2.	Document ID:	US 2002014677	8 A l					

File: DWPI

DERWENT-ACC-NO: 2003-255127

DERWENT-WEEK: 200325

L10: Entry 2 of 19

COPYRIGHT 2004 DERWENT INFORMATION LTD

TITLE: Isolated polynucleotide encoding pineal gland specific gene-1 protein (PGSG-1), useful for regulation of the pituitary gland and for modulating biological rhythms

INVENTOR: HE, W W; ROSEN, C

PRIORITY-DATA: 1995US-0461248 (June 5, 1995), 2002US-0153739 (May 24, 2002)

PATENT-FAMILY:

PUB-NO PUB-DATE LANGUAGE PAGES MAIN-IPC

h e b b g e e e f e h eh ef b e

October 10, 2002

021 C12P021/02

INT-CL (IPC): <u>C07</u> <u>H</u> <u>21/04</u>; <u>C07</u> <u>K</u> <u>14/575</u>; <u>C12</u> <u>N</u> <u>5/06</u>; <u>C12</u> <u>P</u> <u>21/02</u>

ABSTRACTED-PUB-NO: US20020146778A

BASIC-ABSTRACT:

NOVELTY - A new isolated polynucleotide (I) comprises:

- (a) a sequence encoding a polypeptide of 345 amino acids, fully defined in the specification;
- (b) a sequence encoding amino acid 22 to 283 of (a);
- (c) a sequence capable of hybridizing to and which is at least 70% identical to (a) or (b);
- (d) the DNA contained in ATCC Deposit No. 97162; or
- (e) a fragment of (a), (b), or (c).

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for the following:

- (1) A vector containing (I);
- (2) A host cell genetically engineered with the vector;
- (3) Producing a polypeptide comprising expressing from the host cell the polypeptide encoded by the DNA;
- (4) Producing cells capable of expressing a polypeptide comprising transforming or transfecting the cells with the vector;
- (5) A polypeptide (II) comprising a sequence of 345 amino acids, fully defined in the specification, amino acids 22 to 283 of (II), or a polypeptide encoded by the cDNA of ATCC Deposit No. 97162 and its fragments;
- (6) A compound effective as agonist, or antagonist for the polypeptide; and
- (7) Identifying compounds which bind to and activate or inhibit a receptor for the polypeptide comprising:
- (a) contacting a cell expressing on its surface a receptor for the polypeptide, the receptor being associated with a second component capable of providing a detectable signal in response to the binding of a compound to the receptor, with a compound to be screened under conditions to permit binding to the receptor; and
- (b) determining whether the compound binds to and activates or inhibits the receptor by detecting the presence or absence of a signal generated from the interaction of the compound with the receptor.

ACTIVITY - Endocrine; Cytostatic; Anticonvulsant; Ophthalmological.

No biological data given.

MECHANISM OF ACTION - Gene Therapy.

No biological data given.

USE - The methods are useful for diagnosing a disease or a susceptibility to a disease related to expression of the polypeptide comprising determining a mutation in the nucleic acid sequence encoding the polypeptide, treating a patient in need of pineal gland specific gene-1 (PGSG-1) comprising administering to the patient an

amount of the polypeptide, and for diagnosis comprising analyzing for the presence of the polypeptide in a sample derived from a host (all claimed). The polypeptides are used for the regulation of the pituitary gland and to modulate biological rhythms. PGSG-1 is useful for treating conditions resulting from pineal gland tumors such as precocious puberty, hydrocephalus, papilledema, paralysis of upward gaze, ptosis and loss of pupillary light and accommodation reflexes.

Full Title Citation Front Review Classification Date Reference

3. Document ID: WO 200273366 A2, US 20030050070 A1, AU 2002254215 A1

L10: Entry 3 of 19

File: DWPI

Sep 19, 2002

DERWENT-ACC-NO: 2002-643728

DERWENT-WEEK: 200435

COPYRIGHT 2004 DERWENT INFORMATION LTD

TITLE: Method of dynamically allocating spectrum bandwidth by detecting criteria data sets for respective carriers and transmitting requests for a switch of carriers and transceivers over a control channel

INVENTOR: MASHINSKY, A; ROSEN, C; MASHINSKY,

PRIORITY-DATA: 2002US-357545P (February 15, 2002), 2001US-275818P (March 14, 2001), 2002US-0099552 (March 14, 2002)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
WO 200273366 A2	September 19, 2002	E	058	G06F000/00
US 20030050070 A1	March 13, 2003		000	H04Q007/20
AU 2002254215 A1	September 24, 2002		000	G06F000/00

INT-CL (IPC): <u>G06</u> <u>F</u> <u>0/00</u>; <u>H04</u> <u>B</u> 1/38; H04 <u>M</u> 1/00; H04 <u>Q</u> 7/20

ABSTRACTED-PUB-NO: WO 200273366A

BASIC-ABSTRACT:

NOVELTY - Spectrum and network availability and congestion information from different service providers is pooled in a central database. Wholesale volumes of network capacity or accounts can be purchased and dynamically allocated to devices of different origin and ownership. A central system administrator re-bills and reconciles fractional usage to each device. Emergency calls can be given high priority to ensure their connection.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for

- (a) a device for dynamically switching communication modes in a wireless network
- (b) and a system for managing available spectrum in a wireless network with two or more available carriers

USE - Spectrum allocation in wireless telephone data systems.

ADVANTAGE - Efficient management of a network, especially at times of high congestion.

Full Title Citation Front	Review Classification Date	Reference Claims MMC Draw Desi

4. Document ID: US 20020086314 A1

L10: Entry 4 of 19

File: DWPI

Jul 4, 2002

DERWENT-ACC-NO: 2002-635672

DERWENT-WEEK: 200455

COPYRIGHT 2004 DERWENT INFORMATION LTD

TITLE: Novel human colon specific gene polypeptide, useful for treating colon cancer,

and as a diagnostic marker for colon cancer or matastasis of colon cancers

INVENTOR: ROSEN, C ; YU, G

PRIORITY-DATA: 1995US-0469667 (June 6, 1995), 1998US-0224110 (March 31, 1998),

2001US-0988292 (November 19, 2001)

PATENT-FAMILY:

PUB-NO

PUB-DATE

LANGUAGE

PAGES

MAIN-IPC

US 20020086314 A1

July 4, 2002

051

C12Q001/68

INT-CL (IPC): $\underline{\text{C07}}$ $\underline{\text{H}}$ $\underline{\text{21/04}}$; $\underline{\text{C12}}$ $\underline{\text{N}}$ $\underline{\text{5/06}}$; $\underline{\text{C12}}$ $\underline{\text{N}}$ $\underline{\text{9/16}}$; $\underline{\text{C12}}$ $\underline{\text{P}}$ $\underline{\text{21/02}}$; $\underline{\text{C12}}$ $\underline{\text{Q}}$ $\underline{\text{1/68}}$; $\underline{\text{G01}}$ $\underline{\text{N}}$ $\underline{\text{33/574}}$

ABSTRACTED-PUB-NO: US20020086314A

BASIC-ABSTRACT:

NOVELTY - A human colon specific gene (CSG) polypeptide (I) comprising a sequence (S1) of 323 amino acids given in the specification, or its fragment, analog or derivative, or a sequence encoded by a human gene having a coding portion whose DNA has at least 90% identity to a sequence (S2) of 638, 1209, 548, 878, 560, 709, 559, 409 or 600 base pairs given in the specification, is new.

DETAILED DESCRIPTION - A human colon specific polypeptide (I) comprising a sequence (S1) of 323 amino acids fully defined in the specification, or its fragment, analog or derivative, or a sequence encoded by a human gene having a coding portion whose DNA has at least 90% identity to a sequence (S2) of 638, 1209, 548, 878, 560, 709, 559, 409 or 600 base pairs fully defined in the specification, and a polypeptide encoded by the human gene whose coding region includes a DNA having at least 90% identity to the DNA contained in ATCC 97102 and fragments, analogs or derivatives of the polypeptide.

INDEPENDENT CLAIMS are also included for:

- (1) an isolated polynucleotide (II) comprising:
- (a) a polynucleotide encoding S1
- (b) a polynucleotide capable of hybridizing to and which is at least 70% identical to (a); and
- (c) a polynucleotide encoding the same mature polypeptide as a human gene having a coding portion which includes DNA having at least 90% identity to S2 or to the DNA included in ATCC 97102;
- (2) a vector (III) containing (II);
- (3) a host cell (IV) transformed or transfected with (III);
- (4) production of (I);

(5) producing cells capable of expressing (I) by genetically engineering cells with (III);

- (6) an antibody (V) against (I);
- (7) a compound (VI) which inhibits activation of (I);
- (8) diagnosing (M) a disorder of colon in a patient by determining transcription of a human gene in a sample derived from a non-colon tissue of a host (the gene has a coding portion which includes a DNA having at least 90% identity to a DNA selected from S2 or a sequence of 874, 570, 1121 or 605 base pairs fully defined in the specification);
- (9) an isolated antibody (VII) or its portion that specifically binds to a protein
- (P) or is produced by immunizing an animal with (P) ((P) is:
- (a) a protein whose sequence consists of amino acid residues 1-323 of S1, or a protein consisting of a fragment comprising at least 30 or 50 contiguous residues of S1 ((VII) or its portion specifically binds to S1); and
- (b) a protein whose sequence consists of the amino acid sequence of the full-length or mature CSG10 polypeptide encoded by the cDNA contained in ATCC 97102, or a protein consisting of a fragment of the CSG10 polypeptide encoded by the cDNA contained in ATCC 97102 (the fragment comprises at least 30 or 50 amino acid residues of the CSG10 polypeptide encoded by the cDNA contained in ATCC 97102 and (VII) or its portion binds specifically to the CSG10 polypeptide encoded by the cDNA contained in ATCC 97102));

ć

- (10) an isolated cell (VIII) that produces (VII); and
- (11) a hybridoma (IX) that produces (VII).

ACTIVITY - Cytostatic.

MECHANISM OF ACTION - Inhibitor of activation of (I) (claimed); gene therapy; vaccine.

No supporting data is given.

USE - (I) Is useful for treating a patient having need of (I).

- (VI) Is useful for the treatment of a patient and inhibit expression and activity (I). (VI) Is a polypeptide and a therapeutically effective amount of the compound is administered by providing to the patient DNA encoding the polypeptide and expressing the polypeptide in vivo.
- (VII) Is useful for detecting CSG10 protein in a biological sample by contacting the biological sample with (VII) or its portion, and detecting the CSG10 protein in the biological sample (claimed).
- (I) Or (II) is useful as a diagnostic marker for colon cancer, or as an agent to determine if colon cancer has metastasized, and for in vitro purposes related to scientific research, synthesis of DNA and manufacture of DNA vectors.
- (V) Is useful to target cancer cells and as a part of a colon cancer vaccine.
- (I) Is useful for treating colon cancer, to screen for compounds which interact with (I), for example, compounds which inhibit or activate (I), and as an immunogen to produce antibodies to (I). (II) Is useful in gene therapy and for chromosome identification.

5. Document ID: US 6337195 B1

L10: Entry 5 of 19 File: DWPI Jan 8, 2002

DERWENT-ACC-NO: 2002-163239

DERWENT-WEEK: 200455

COPYRIGHT 2004 DERWENT INFORMATION LTD

TITLE: Human colon specific gene polypeptide, useful as diagnostic marker, vaccine

and for screening agonists and antagonists for treating colon cancer

INVENTOR: ROSEN, C; YU, G

PRIORITY-DATA: 1995US-0469667 (June 6, 1995), 1998US-0224110 (March 31, 1998)

PATENT-FAMILY:

 PUB-NO
 PUB-DATE
 LANGUAGE
 PAGES
 MAIN-IPC

 US 6337195 B1
 January 8, 2002
 049
 C07H021/04

INT-CL (IPC): $\underline{\text{C07}}$ $\underline{\text{H}}$ $\underline{21}/\underline{04}$; $\underline{\text{C07}}$ $\underline{\text{K}}$ $\underline{13}/\underline{00}$; $\underline{\text{C12}}$ $\underline{\text{P}}$ $\underline{21}/\underline{04}$

ABSTRACTED-PUB-NO: US 6337195B

BASIC-ABSTRACT:

NOVELTY - An isolated human colon specific gene polypeptide (I) comprising a sequence (S1) 95% identical to a sequence (S2) consisting of amino acids 2-323 of a fully defined sequence (S3) of 323 amino acids as given in the specification, where (I) binds to an antibody that specifically binds to a protein consisting of (S3), is new.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

- (1) preparation of (I); and
- (2) a polypeptide (II) comprising at least 30 contiguous amino acids of (S3).

ACTIVITY - Cytostatic.

MECHANISM OF ACTION - Vaccine. No supporting data is given.

USE - (I) is useful as diagnostic marker for colon cancer and as a colon cancer vaccine. It is also useful for targeting cancer cells and for screening agonist and antagonist for (I) which are useful for treating colon cancer.

Full Title Citation Front Review Classification [Date Reference	Claims KWC Draw Desc
	······································	
☐ 6. Document ID: US 6175831 B1		
L10: Entry 6 of 19	File: DWPI	Jan 16, 2001

DERWENT-ACC-NO: 2001-463379

DERWENT-WEEK: 200150

COPYRIGHT 2004 DERWENT INFORMATION LTD

TITLE: Network database system has database server which is responsive to parser processing to manipulate record in database and selected records are linked by confirmed defined relationship

INVENTOR: BERLYN, N D; BODDU, C; CHIBNIK, R; CLIFFORD, S; GREEN, J; HABER, D; MITCHELL, L; ROSEN, C; SALAMON, M R; SAMUELS, D; SEIFER, A; WEINREICH, A P; ZILBERBERG, S

PRIORITY-DATA: 1997US-0785559 (January 17, 1997)

PATENT-FAMILY:

PUB-NO PUB-DATE LANGUAGE PAGES MAIN-IPC US 6175831 B1 January 16, 2001 048 G06F017/30

INT-CL (IPC): $\underline{G06} + \underline{17/30}$

ABSTRACTED-PUB-NO: US 6175831B

BASIC-ABSTRACT:

NOVELTY - Database connectivity engine pre-processing output of web server, is coupled to database server to which queue watcher is coupled. Mail server coupled to communication port to receive incoming e-mails, is coupled to watcher to transmit outgoing e-mails. Parser coupled to mail server processes incoming e-mails, is coupled to database server that manipulates a record. Selected records are linked by confirmed defined relationship.

DETAILED DESCRIPTION - The web server is connected to communication port. A database server is connected to the database which has a number records. An INDEPENDENT CLAIM is also included for a method of creating a networking database system.

USE - Networking database system.

ADVANTAGE - The networking database has applications for searching in terms of finding other individuals in the database, finding a connection to other users in the database. The system finds other individuals in the database having particular professional or personal characteristics or features that are of interest to other members. Thus the system performs search using the database and the defined relationships in order to determined specific information about registered user.

DESCRIPTION OF DRAWING(S) - The figure shows the flowchart of illustrating the process, add new relationship to a personal profile of networking database system.

Full Title Citation Front Review Classification Date Reference Claims KMC Draw Desc

7. Document ID: WO 9854963 A2, AU 9878120 A, EP 1039801 A1, JP 2002516573 W, US 20030092893 A1, EP 1428833 A2

L10: Entry 7 of 19

File: DWPI

Dec 10, 1998

DERWENT-ACC-NO: 1999-059865

DERWENT-WEEK: 200462

COPYRIGHT 2004 DERWENT INFORMATION LTD

TITLE: New isolated human genes and the secreted polypeptides they encode - useful for diagnosis and treatment of e.g. cancers, neurological disorders, immune diseases, inflammation or blood disorders

INVENTOR: BREWER, L A; CARTER, K; DILLON, P; EBNER, R; ENDRESS, G; FAN, P; FENG, P; FERRIE, A M; FISCHER, C; FLORENCE, C; FLORENCE, K; GREENE, J; HU, J; KYAW, H; LAFLEUR, D; LI, Y; MOORE, PA; NI, J; OLSEN, H; ROSEN, C; RUBEN, S; SHI, YE; SOPPET, D; WEI, Y; YOUNG, P; YU, G; ZENG, Z; CARTER, KC; DILLON, PJ; ENDRESS, GA; FISCHER, CL; GREENE, JM; LAFLEUR, DW; MORE, PA; OLSEN, HS; ROSEN, CA; RUBEN, SM; SHI, Y; SOPPET, DR

Record List Display Page 8 of 9

PRIORITY-DATA: 1997US-070923P (December 18, 1997), 1997US-048875P (June 6, 1997), 1997US-048876P (June 6, 1997), 1997US-048877P (June 6, 1997), 1997US-048878P (June 6, 1997), 1997US-048880P (June 6, 1997), 1997US-048881P (June 6, 1997), 1997US-048882P (June 6, 1997), 1997US-048883P (June 6, 1997), 1997US-048884P (June 6, 1997), 1997US-048885P (June 6, 1997), 1997US-048892P (June 6, 1997), 1997US-048893P (June 6, 1997), 1997US-048894P (June 6, 1997), 1997US-048895P (June 6, 1997), 1997US-048896P (June 6, 1997), 1997US-048897P (June 6, 1997), 1997US-048898P (June 6, 1997), 1997US-048899P (June 6, 1997), 1997US-048900P (June 6, 1997), 1997US-048901P (June 6, 1997), 1997US-048915P (June 6, 1997), 1997US-048916P (June 6, 1997), 1997US-048917P (June 6, 1997), 1997US-048949P (June 6, 1997), 1997US-048962P (June 6, 1997), 1997US-048963P (June 6, 1997), 1997US-048964P (June 6, 1997), 1997US-048970P (June 6, 1997), 1997US-048971P (June 6, 1997), 1997US-048972P (June 6, 1997), 1997US-048974P (June 6, 1997), 1997US-049019P (June 6, 1997), 1997US-049020P (June 6, 1997), 1997US-049373P (June 6, 1997), 1997US-049374P (June 6, 1997), 1997US-049375P (June 6, 1997), 1997US-057584P (September 5, 1997), 1997US-057627P (September 5, 1997), 1997US-057628P (September 5, 1997), 1997US-057629P (September 5, 1997), 1997US-057634P (September 5, 1997), 1997US-057635P (September 5, 1997), 1997US-057642P (September 5, 1997), 1997US-057643P (September 5, 1997), 1997US-057644P (September 5, 1997), 1997US-057645P (September 5, 1997), 1997US-057646P (September 5, 1997), 1997US-057647P (September 5, 1997), 1997US-057648P (September 5, 1997), 1997US-057649P (September 5, 1997), 1997US-057650P (September 5, 1997), 1997US-057651P (September 5, 1997), 1997US-057654P (September 5, 1997), 1997US-057661P (September 5, 1997), 1997US-057662P (September 5, 1997), 1997US-057666P (September 5, 1997), 1997US-057667P (September 5, 1997), 1997US-057668P (September 5, 1997), 1997US-057760P (September 5, 1997), 1997US-057761P (September 5, 1997), 1997US-057762P (September 5, 1997), 1997US-057763P (September 5, 1997), 1997US-057764P (September 5, 1997), 1997US-057765P (September 5, 1997), 1997US-057769P (September 5, 1997), 1997US-057770P (September 5, 1997), 1997US-057771P (September 5, 1997), 1997US-057774P (September 5, 1997), 1997US-057775P (September 5, 1997), 1997US-057776P (September 5, 1997), 1997US-057777P (September 5, 1997), 1997US-057778P (September 5, 1997), 1997US-049896P (June 6, 1997), 1998US-092921P (July 15, 1998), 1998US-094657P (July 30, 1998), 1998US-0205258 (December 4, 1998), 2001US-0023282 (December 20, 2001)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
WO 9854963 A2	December 10, 1998	E	770	A01N037/18
AU 9878120 A	December 21, 1998		000	
EP 1039801 A1	October 4, 2000	E	000	A01N037/18
JP 2002516573 W	June 4, 2002		914	C12N015/09
US 20030092893 A1	May 15, 2003		000	C07K016/00
EP 1428833 A2	June 16, 2004	E	000	C07K014/435

INT-CL (IPC): A01 N 37/18; A01 N 43/04; A61 K 31/711; A61 K 38/00; A61 K 38/17; A61 K 39/395; A61 K 48/00; A61 P 7/00; A61 P 25/00; A61 P 29/00; A61 P 35/00; A61 P 37/00; A61 P 43/00; C07 K 14/435; C07 K 14/47; C07 K 16/00; C07 K 16/18; C12 N 1/15; C12 N 1/19; C12 N 1/20; C12 N 1/21; C12 N 5/00; C12 N 5/06; C12 N 5/10; C12 N 15/00; C12 N 15/02; C12 Q 1/68; G01 N 33/53

ABSTRACTED-PUB-NO: WO 9854963A

BASIC-ABSTRACT:

An isolated nucleic acid molecule (NAM) (I) comprising a polynucleotide (PN) having a nucleotide sequence (NS) at least 95% identical to: (a) a PN fragment of one of a total of 207 defined human cDNA sequences given in the specification or a PN fragment of the cDNA sequence included in ATCC Deposit No. Z which is hybridisable to one of the 207 defined cDNA sequence; (b) a PN which is an (allelic) variant of one of the 207 defined cDNA sequences; (c) a PN encoding a biologically active polypeptide or a polypeptide fragment, domain or epitope of one of the 207 defined amino acid sequences given in the specification or a polypeptide fragment encoded by a cDNA sequence included in ATCC Deposit No. Z which is hybridisable to one of the defined

cDNA sequences; (d) a PN which encodes a species homologue of one of the 207 defined polypeptides; or (e) a PN capable of hybridising under stringent conditions to any one of the PNs specified in (a)-(d), where the PN

ef

Hit List

Clear Generate Collection Print Fwd Refs Bkwd Refs Generate OACS

Search Results - Record(s) 1 through 78 of 78 returned.

1. Document ID: US 20040132087 A1

Using default format because multiple data bases are involved.

L13: Entry 1 of 78

File: PGPB

Jul 8, 2004

PGPUB-DOCUMENT-NUMBER: 20040132087

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040132087 A1

TITLE: Novel human enzyme family members and uses thereof

PUBLICATION-DATE: July 8, 2004

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Meyers, Rachel E. Newton MA US
Glucksmann, Maria Alexandria Lexington MA US
Rudolph-Owen, Laura A. Medford MA US

US-CL-CURRENT: $\underline{435/6}$; $\underline{435/226}$, $\underline{435/320.1}$, $\underline{435/325}$, $\underline{435/69.1}$, $\underline{530/350}$, $\underline{536/23.2}$

Full Title Citation Front Review Classification Date Reference Sequences Attachments - KMC Draw Des

2. Document ID: US 20040121956 A1

L13: Entry 2 of 78 File: PGPB Jun 24, 2004

PGPUB-DOCUMENT-NUMBER: 20040121956

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040121956 A1

TITLE: Drosophila G protein coupled receptors, nucleic acids, and methods related to

the same

PUBLICATION-DATE: June 24, 2004

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47 Lowery, David E. Portage MI US Smith, Valdin G. Kalamazoo MI US Kubiak, Teresa M. Richland MI US Larsen, Martha J. Kalamazoo MI US

US-CL-CURRENT: 514/12; 435/320.1, 435/348, 435/69.1, 530/350, 536/23.5

ABSTRACT:

h e b b g e e e f e h eh ef b e

The present invention provides a Drosophila melanogaster GPCR (DmGPCR) polypeptides and polynucleotides which identify and encode such a DmGPCR. In addition, the invention provides expression vectors, host cells and methods for its production. The invention also provides methods for the identification of homologs in other animals, and of DmGPCR agonists/antagonists, useful for the treatment of diseases in animals and for the control of insects that are injurious or harmful to plants or animals.

Full Title Citation Front Review Classification Date Reference Sequences Attachments - KMC Draw Des

3. Document ID: US 20040110185 A1

L13: Entry 3 of 78

File: PGPB

Jun 10, 2004

PGPUB-DOCUMENT-NUMBER: 20040110185

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040110185 A1

TITLE: Human hypothalmic ("HR") receptor polypeptide compositions, methods and uses

thereof

PUBLICATION-DATE: June 10, 2004

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Duhl, David Oakland CA US

US-CL-CURRENT: $\underline{435/6}$; $\underline{435/320.1}$, $\underline{435/325}$, $\underline{435/69.1}$, $\underline{530/350}$, $\underline{536/23.5}$

ABSTRACT:

A new human hypothalmic receptor has been identified, and the amino acid and nucleotide sequence of the receptor are provided. The nucleotide sequence is useful to construct expression cassettes and vectors to produce host cells which are capable of expressing the receptor, its mutants, fragments, or fusions. Such polypeptides are useful for identifying new agonists and antagonists.

Full Title Citation Front Review Classification Date Reference Sequences Attachments KNMC Draw Desc

4. Document ID: US 20040110170 A1

L13: Entry 4 of 78

File: PGPB

Jun 10, 2004

PGPUB-DOCUMENT-NUMBER: 20040110170

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040110170 A1

TITLE: Cloning and characterization of calcitonin gene related peptide receptors

PUBLICATION-DATE: June 10, 2004

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Pisegna, Joseph R. Santa Monica CA US Wank, Stephen A. Potomac MD US

h e b b g e e e f e h eh ef b e

US-CL-CURRENT: 435/6; 435/320.1, 435/325, 435/69.1, 530/350, 536/23.5

ABSTRACT:

This invention provides CGRP receptors (including both amino acid and nucleic acid sequences). Compositions which include these polypeptides, proteins, nucleic acids, recombinant cells, transgenic animals, and antibodies to the receptors are also provided.

Full	Tith	≊ Citation Front Review Classification Date Reference Sequences Atlachments ····· KMC Draw Desc
	5.	Document ID: US 20040009553 A1

L13: Entry 5 of 78

File: PGPB

Jan 15, 2004

PGPUB-DOCUMENT-NUMBER: 20040009553

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040009553 A1

TITLE: Novel 27411, 23413, 22438, 23553, 25278, 26212, NARC SC1, NARC 10A, NARC 1, NARC 12, NARC 13, NARC17, NARC 25, NARC 3, NARC 4, NARC 7, NARC 8, NARC 11, NARC 14A, NARC 15, NARC 16, NARC 19, NARC 20, NARC 26, NARC 27, NARC 28, NARC 30, NARC 5, NARC 6, NARC 9, NARC 10C, NARC 8B, NARC 9, NARC2A, NARC 16B, NARC 1C, NARC1A, NARC 25, 86604 and 32222 molecules and uses therefor

PUBLICATION-DATE: January 15, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Glucksmann, Maria A.	Lexington	MA	US	X
Williamson, Mark J.	Saugus	MA	US	
Tsai, Fong-Ying	Newton	MA	US	
Rudolph-Owen, Laura A.	Medford	MA	US	
Kapeller-Libermann, Rosanna	Chestnut Hill	MA	US	
Meyers, Rachel E.	Newton	MA	US	
Chiang, Lillian Wei-Ming	Edison	NJ	US	
Hunter, John Joseph	Somerville	MA	US	•

US-CL-CURRENT: 435/69.1; 435/320.1, 435/325, 530/350, 536/23.5

ABSTRACT:

The invention provides isolated nucleic acids molecules and proteins, designated 27411, 23413, 22438, 23553, 25278, 26212, NARC SC1, NARC 10A, NARC 1, NARC 12, NARC 13, NARC 17, NARC 25, NARC 3, NARC 4, NARC 7, NARC 8, NARC 11, NARC 14A, NARC 15, NARC 16, NARC 19, NARC 20, NARC 26, NARC 27, NARC 28, NARC 30, NARC 5, NARC 6, NARC 9, NARC 10C, NARC 8B, NARC 9, NARC2A, NARC 16B, NARC 1C, NARC 1A, NARC 25, 86604 and 32222 nucleic acid molecules and proteins. The invention also provides antisense nucleic acid molecules, recombinant expression vectors containing said nucleic acid molecules, host cells into which the expression vectors have been introduced, nonhuman transgenic animals in which a said genes have been introduced or disrupted, fusion proteins, antigenic peptides and antibodies to said proteins. Diagnostic and therapeutic methods utilizing compositions of the invention are also provided.

ef

6. Document ID: US 20030215860 A1

L13: Entry 6 of 78

File: PGPB

Nov 20, 2003

PGPUB-DOCUMENT-NUMBER: 20030215860

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030215860 A1

TITLE: Novel 18636, 2466, 43238, 1983, 52881, 2398, 45449, 50289, 52872 and 26908

molecules and uses therefor

PUBLICATION-DATE: November 20, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Glucksmann, Maria A.	Lexington	MA	US	
Silos-Santiago, Inmaculada	Del Mar	CA	us	
Carroll, Joseph M.	Cambridge	MA	us	
Galvin, Katherine M.	Jamaica Plain	MA	US	

US-CL-CURRENT: 435/6; 435/320.1, 435/325, 435/69.1, 530/350, 530/388.1, 536/23.1

ABSTRACT:

The invention provides isolated nucleic acids molecules, designated 18636, 2466, 43238, 1983, 52881, 2398, 45449, 50289, 52872 and 26908 nucleic acid molecules. The invention also provides antisense nucleic acid molecules, recombinant expression vectors containing 18636, 2466, 43238, 1983, 52881, 2398, 45449, 50289, 52872 and 26908 nucleic acid molecules, host cells into which the expression vectors have been introduced, and nonhuman transgenic animals in which a 18636, 2466, 43238, 1983, 52881, 2398, 45449, 50289, 52872 or 26908 gene has been introduced or disrupted. The invention still further provides isolated 18636, 2466, 43238, 1983, 52881, 2398, 45449, 50289, 52872 or 26908 proteins, fusion proteins, antigenic peptides and anti-18636, 2466, 43238, 1983, 52881, 2398, 45449, 50289, 52872 or 26908 antibodies. Diagnostic and therapeutic methods utilizing compositions of the invention are also provided.

······································	,	
Full Title Citation Front Review Classification	on Date Reference Sequences Affac	chments KWIC Draw, Desc
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	***************************************
7. Document ID: US 200301872	22 A1	
L13: Entry 7 of 78	File: PGPB	Oct 2, 2003

PGPUB-DOCUMENT-NUMBER: 20030187222

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030187222 A1

TITLE: Novel galanin receptor

PUBLICATION-DATE: October 2, 2003

INVENTOR-INFORMATION:

h e b b g e e e f e h e h e f b e

NAME CITY STATE COUNTRY RULE-47

Shi-Hsiang, Shen Beaconsfield CA
Sultan, Ahmad Dorval CA
Wahlestedt, Claes Montreal CA
Walker, Philippe Montreal CA

US-CL-CURRENT: 530/350; 435/320.1, 435/353, 435/455, 435/69.1, 435/7.1, 530/388.22,

536/23.5

ABSTRACT:

The present invention is directed to a novel receptor for galanin which has been designated as galanin receptor 2. The invention encompasses both the receptor protein as well as nucleic acids encoding the protein. In addition, the present invention is directed to methods and compositions which rely upon either GAL-R2 proteins or nucleic acids.

Full Title Citation	Front Review Classificatio	on Date Reference Sequerics	s Attachments	KilinC Drawl Desi
••••••••••••••••••	······	······································	•••••••••••••••••••••••••••••••••••••••	********************************
·				

8. Document ID: US 20030175883 A1

L13: Entry 8 of 78

File: PGPB

Sep 18, 2003

PGPUB-DOCUMENT-NUMBER: 20030175883

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030175883 A1

TITLE: DNA encoding a mammalian LPA receptor and uses thereof

PUBLICATION-DATE: September 18, 2003

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Bard, Jonathan A Doylestown PA U

US-CL-CURRENT: 435/69.1; 435/320.1, 435/325, 530/350, 536/23.5

ABSTRACT:

This invention provides an isolated nucleic acid encoding a mammalian LPA receptor, a purified mammalian LPA receptor, vectors comprising isolated nucleic acid encoding an mammalian LPA receptor, cells comprising such vectors, antibodies directed to a mammalian LPA receptor, nucleic acid probes useful for detecting nucleic acid encoding a mammalian LPA receptor, antisense oligonucleotides complementary to unique sequences of nucleic acid encoding mammalian LPA receptor, transgenic, nonhuman animals which express DNA encoding a normal or a mutant mammalian LPA receptor, methods of isolating an mammalian LPA receptor, methods of treating an abnormality that is linked to the activity of the mammalian LPA receptor, as well as methods of determining binding of compounds to mammalian LPA receptors.

Ĩ	Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	·····	KMC	Draw Desc
												<u> </u>	

9. Document ID: US 20030162944 A1

h e b b g e e e f e h eh ef b e

L13: Entry 9 of 78 File: PGPB Aug 28, 2003

PGPUB-DOCUMENT-NUMBER: 20030162944

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030162944 A1

TITLE: Nucleic acid encoding neuropeptide Y/peptide YY (Y2) receptors and uses

thereof

PUBLICATION-DATE: August 28, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Gerald, Christophe	Ridgewood	NJ	US	
Walker, Mary W.	Elmwood Park	NJ	US	
Branchek, Theresa	Teaneck	NJ	US	
Weinshank, Richard L.	Teaneck	NJ	US	

US-CL-CURRENT: <u>530/350</u>; <u>435/320.1</u>, <u>435/325</u>, <u>435/69.1</u>, <u>536/23.5</u>

ABSTRACT:

This invention provides isolated nucleic acid molecules encoding Y2 receptors, an isolated, purified Y2 receptor protein, vectors comprising isolated nucleic acid molecules encoding Y2 receptors, mammalian, insect, bacterial and yeast cells comprising such vectors, antibodies directed to the Y2 receptors, nucleic acid probes useful for detecting nucleic acid encoding Y2 receptors, antisense oligonucleotides complementary to unique sequences of a nucleic acid molecule which encodes a Y2 receptor, pharmaceutical compounds related to the Y2 receptors, and nonhuman transgenic animals which express nucleic acid encoding a normal or mutant Y2 receptor. This invention further provides methods for determining ligand binding, detecting expression, drug screening, and methods of treatment involving Y2 receptors.

Full Title Citation Front Review Classification Date	Reference Sequences Attachm	ents 1000C Draw Desi
· · · · · · · · · · · · · · · · · · ·	ii	······
10. Document ID: US 20030148449 A1		
L13: Entry 10 of 78	File: PGPB	Aug 7, 2003

PGPUB-DOCUMENT-NUMBER: 20030148449

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030148449 A1

TITLE: G protein coupled receptor agonists and antagonists and methods of activating and inhibiting G protein coupled receptors using the same

PUBLICATION-DATE: August 7, 2003

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47
Kuliopulos, Athan Winchester MA US
Covic, Lidija Somerville MA US

US-CL-CURRENT: 435/69.1; 435/320.1, 435/325, 514/12, 514/558, 530/350

h eb bgeeef eheh ef be

Jul 24, 2003

ABSTRACT:

The invention relates generally to G protein coupled receptors and in particular to agonists and antagonists of G protein receptors and methods of using the same.

Full Title Citation Front Review Classification Date Reference Sequences Attachments - KMC Draw Description Descri

File: PGPB

PGPUB-DOCUMENT-NUMBER: 20030138890

PGPUB-FILING-TYPE: new

L13: Entry 11 of 78

DOCUMENT-IDENTIFIER: US 20030138890 A1

TITLE: Novel G protein-coupled receptor family members, human thioredoxin family members, human leucine-rich repeat family members, and human ringfinger family member

PUBLICATION-DATE: July 24, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Glucksmann, Maria Alexandra	Lexington	MA	US	
Silos-Santiago, Inmaculada	Jamaica Plain	MA	US	
Galvin, Katherine M.	Jamaica Plain	MA	US	
Weich, Nadine	Brookline	MA	US	
Curtis, Rory A. J.	Framingham	MA	US	
Bandaru, Rajasekhar	Watertown	MA	US	
Kapeller-Libermann, Rosana	Chestnut Hill	MA	US	•

US-CL-CURRENT: $\underline{435}/\underline{69.1}$; $\underline{435}/\underline{320.1}$, $\underline{435}/\underline{325}$, $\underline{530}/\underline{350}$, $\underline{536}/\underline{23.5}$

ABSTRACT:

The invention provides isolated nucleic acids molecules, designated 20716, 65494, 44576, 1983, 52881, 2398, 45449, 50289, 52872, 22105, 22109, 22108, 47916, 33395, 31939, and 84241 nucleic acid molecules, which encode novel G protein-coupled receptor family members, human thioredoxin family members, human leucine-rich repeat family members, and human ringfinger family member. The invention also provides antisense nucleic acid molecules, recombinant expression vectors containing 20716, 65494, 44576, 1983, 52881, 2398, 45449, 50289, 52872, 22105, 22109, 22108, 47916, 33395, 31939, or 84241 nucleic acid molecules, host cells into which the expression vectors have been introduced, and nonhuman transgenic animals in which a 20716, 65494, 44576, 1983, 52881, 2398, 45449, 50289, 52872, 22105, 22109, 22108, 47916, 33395, 31939, or 84241 gene has been introduced or disrupted. The invention still further provides isolated 20716, 65494, 44576, 1983, 52881, 2398, 45449, 50289, 52872, 22105, 22109, 22108, 47916, 33395, 31939, or 84241 proteins, fusion proteins, antigenic peptides and anti-20716, 65494, 44576, 1983, 52881, 2398, 45449, 50289, 52872, 22105, 22109, 22108, 47916, 33395, 31939, or 84241 antibodies. Diagnostic methods utilizing compositions of the invention are also provided.

Full Title Citation		Reference Sequer	··· KWIC Draw. Desc

12. Document ID: US 20030119096 A1

L13: Entry 12 of 78

File: PGPB

Jun 26, 2003

PGPUB-DOCUMENT-NUMBER: 20030119096

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030119096 A1

TITLE: Method of treating an abnormality using a GALR3 receptor antagonist

PUBLICATION-DATE: June 26, 2003

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47 Bard, Jonathan A. Doylestown PΑ US Borowsky, Beth Montclair NJ US Smith, Kelli E. Fair Lawn NJ US

US-CL-CURRENT: <u>435/69.1</u>; <u>435/320.1</u>, <u>435/325</u>, <u>530/350</u>, <u>536/23.5</u>

ABSTRACT:

This invention provides an isolated nucleic acid encoding a mammalian galanin receptor, an isolated galanin receptor protein, vectors comprising isolated nucleic acid encoding a mammalian galanin receptor, cells comprising such vectors, antibodies directed to a mammalian galanin receptor, nucleic acid probes useful for detecting nucleic acid encoding a mammalian galanin receptor, antisense oligonucleotides complementary to unique sequences of nucleic acid encoding a mammalian galanin receptor, nonhuman transgenic animals which express DNA encoding a normal or a mutant mammalian galanin receptor, as well as methods of determining binding of compounds to mammalian galanin receptors.

Full	Title	Citation	Front	Bertiem	Placeitication	Frata	Reference	Sequences	Attachments	,		Draw Desc
				11201200	Chissin Control	10 10 (6)	13618161158	cocceptor rocks	-araci memis		 POURICE	DIRECT DIRECT

13. Document ID: US 20030099970 A1

L13: Entry 13 of 78

File: PGPB

May 29, 2003

PGPUB-DOCUMENT-NUMBER: 20030099970

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030099970 A1

TITLE: Human-derived bradeion proteins, DNA coding for the proteins, and uses thereof

PUBLICATION-DATE: May 29, 2003

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Tanaka, Manami Ibaraki JP

Tanaka, Tomoo Kanagawa JP

US-CL-CURRENT: 435/6; 435/320.1, 435/325, 435/69.1, 435/7.23, 530/350, 530/388.22, 536/23.5

ABSTRACT:

h eb bgeeef eheh ef be

A human-derived bradeion protein, which has the following properties: (i) it is a transmembranous protein; (ii) it has a structure characteristic of growth hormone and cytokine receptors even in a structure of its transmembranous portion when its structure is determined by a hydrophobicity analysis according to Kyte-Doolittle method; (iii) it is expressed at a high level in a human adult brain, and in less amount in the heart, while it is not expressed in other adult organs or fetus; (iv) it induces programmed cell death (apoptosis) when over-expressed in a cultured human nerve cell lines; (v) it induces termination of cell division and aging when over-expressed in a cultured human normal cell; (vi) it is located in cytoplasm, and forms an intracellular aggregate when overexpressed; and (vii) besides human adult neurons, it is specifically expressed in a human colorectal cancer cell line or in a skin cancer cell line, or an analogue thereof.

Full Title Citation Front Review Classification Date Reference Sequences Attachments	 KWWC Drawt Desc
Attacimisms	 KMMC Drawt Desc

14. Document ID: US 20030082738 A1

L13: Entry 14 of 78

File: PGPB

May 1, 2003

PGPUB-DOCUMENT-NUMBER: 20030082738

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030082738 A1

TITLE: 1983, 52881, 2398, 45449, 50289, and 52872, novel G protein-coupled receptors

and uses therefor

PUBLICATION-DATE: May 1, 2003

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47 Glucksmann, Maria Alexandra Lexington US Galvin, Katherine M. Jamaica Plain MA US Silos-Santiago, Inmaculada Cambridge MA US

US-CL-CURRENT: 435/69.1; 435/320.1, 435/325, 530/350, 536/23.5

ABSTRACT:

The invention provides isolated nucleic acids molecules, designated 1983, 52881, 2398, 45449, 50289, and 52872 nucleic acid molecules, which encode novel G protein-coupled receptor members. The invention also provides antisense nucleic acid molecules, recombinant expression vectors containing 1983, 52881, 2398, 45449, 50289, or 52872 nucleic acid molecules, host cells into which the expression vectors have been introduced, and nonhuman transgenic animals in which a 1983, 52881, 2398, 45449, 50289, or 52872 gene has been introduced or disrupted. The invention still further provides isolated 1983, 52881, 2398, 45449, 50289, or 52872 proteins, fusion proteins, antigenic peptides and anti-1983, 52881, 2398, 45449, 50289, or 52872 antibodies. Diagnostic methods utilizing compositions of the invention are also provided.

Full	Title Citation	Front	Review	Classification	Date	Reference	Sequences	Aifachments	,,	KMAC	Drawi Desi
~~~~~	······	······	·····	·····	·····	······	······	·····			***************************************

15. Document ID: US 20030082641 A1

L13: Entry 15 of 78

File: PGPB

May 1, 2003

h e b b g e e e f e h eh ef b e

PGPUB-DOCUMENT-NUMBER: 20030082641

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030082641 A1

TITLE: A METHOD OF TREATING DEPRESSION USING A GALR3 RECEPTOR ANTAGONIST

PUBLICATION-DATE: May 1, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Bard, Jonathan A.	Doylestown	PA	US	
Borowsky, Beth	Montclair	NJ	US	
Smith, Kelli E.	Wayne	NJ	US	
Branchek, Theresa A.	Teaneck	NJ	US	
Gerald, Christophe P.G.	Ridgewood	NJ	US	
Jones, Kenneth A.	Bergenfield	NJ	US	

US-CL-CURRENT:  $\underline{435}/\underline{7.21}$ ;  $\underline{435}/\underline{320.1}$ ,  $\underline{435}/\underline{325}$ ,  $\underline{435}/\underline{69.1}$ ,  $\underline{530}/\underline{350}$ 

#### ABSTRACT:

This invention provides an isolated nucleic acid encoding a mammalian galanin receptor, an isolated galanin receptor protein, vectors comprising isolated nucleic acid encoding a mammalian galanin receptor, cells comprising such vectors, antibodies directed to a mammalian galanin receptor, nucleic acid probes useful for detecting nucleic acid encoding a mammalian galanin receptor, antisense oligonucleotides complementary to unique sequences of nucleic acid encoding a mammalian galanin receptor, nonhuman transgenic animals which express DNA encoding a normal or a mutant mammalian galanin receptor, as well as methods of determining binding of compounds to mammalian galanin receptors.

©Full**	Title Citation Front Review Cl.	assification Date Referen	e   Sequences	Atlachments	KNAC   Drawn Desc
Г	16. Document ID: US 200	30082201 A1	·····	••••••	······································
L13:	Entry 16 of 78	Fil	e: PGPB		May 1, 2003

PGPUB-DOCUMENT-NUMBER: 20030082201

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030082201 A1

TITLE: Multivalent synthetic vaccine for cancer

PUBLICATION-DATE: May 1, 2003

# INVENTOR-INFORMATION:

THE DISTORT THE ORGENITATION.				
NAME	CITY	STATE	COUNTRY	RULE-47
Mukherjee, Rama	Ghaziabad		IN	
Rao, M.R.S.	Bangalore		IN	
Burman, Arnand C.	Ghaziabad		IN	
Thomas, Becky	Ghaziabad		IŃ	
Prasad, Sudhanand	Ghaziabad		IN	
Sengupta, Paromita	Ghaziabad		IN	

Record List Display Page 11 of 52

US-CL-CURRENT:  $\underline{424/190.1}$ ;  $\underline{435/252.33}$ ,  $\underline{435/320.1}$ ,  $\underline{435/6}$ ,  $\underline{435/69.3}$ ,  $\underline{530/350}$ ,  $\underline{536/23.2}$ 

#### ABSTRACT:

Multivalent vaccine comprising peptides from vasoactive intestinal peptide, bombesin, Substance P and epidermal growth factor are described. A method of constructing a multivalent gene for use in various expressions vectors and the protein recombinantly expressed in the prokaryotic expression systems are also described.

Full Title Citation Front Review Classification Date Reference Sequences Attachments 6000 Draw Desc

17. Document ID: US 20030050446 A1

L13: Entry 17 of 78

File: PGPB

Mar 13, 2003

PGPUB-DOCUMENT-NUMBER: 20030050446

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030050446 A1

TITLE: Regulation of human neuropeptide y-like g protein-coupled receptor

PUBLICATION-DATE: March 13, 2003

INVENTOR-INFORMATION:

NAME

CITY

STATE

COUNTRY

RULE-47

Ramakrishnan, Shyam

Brighton

MΑ

US

US-CL-CURRENT: 530/350

# ABSTRACT:

Reagents which regulate human neuropeptide Y G protein-coupled receptor (NPY-GPCR) protein and reagents which bind to human NPY-GPCR gene products can play a role in preventing, ameliorating, or correcting dysfunctions or diseases including, but not limited to, obesity, diabetes, anxiety, hypertension, cocaine withdrawal, congestive heart failure, memory enhancement, cardiac and cerebral vasospasm, pheochromocytoma, ganglioneuroblastoma, Huntington's disease, Alzheimer' disease, and Parkinson's disease.

Full Title Citation Front Review Classification Date Reference Sequences Atlachments - KMC Draw Desc

18. Document ID: US 20030049794 A1

L13: Entry 18 of 78

File: PGPB

Mar 13, 2003

PGPUB-DOCUMENT-NUMBER: 20030049794

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030049794 A1

TITLE: DNA encoding a human dopamine D1 receptor and uses thereof

PUBLICATION-DATE: March 13, 2003

INVENTOR-INFORMATION:

NAME CITY COUNTRY RULE-47 STATE Weinshank, Richard L. New York NY US

Hartig, Paul R. Kinnelon NJ US

US-CL-CURRENT: 435/69.1; 435/252.3, 435/254.2, 435/320.1, 435/325, 530/350, 536/23.5

#### ABSTRACT:

This invention provides isolated nucleic acid molecules encoding a human dopamine D.sub.1 receptor, isolated proteins which are human dopamine D.sub.1 receptor, vectors comprising isolated nucleic acid molecules encoding a human dopamine D.sub.1 receptor, mammalian cells comprising such vectors, antibodies directed to a human dopamine D. sub.1 receptor, nucleic acid probes useful for detecting nucleic acid encoding human dopamine D.sub.1 receptor, antisense oligonucleotides complementary to any sequences of a nucleic acid molecule which encodes a human dopamine D.sub.1 receptor, pharmaceutical compounds related to human dopamine D.sub.1 receptor, and nonhuman transgenic animals which express DNA a normal or a mutant human dopamine D.sub.1 receptor. This invention further provides methods for determining ligand binding, detecting expression, drug screening, and treatment involving a human dopamine D.sub.1 receptor.

Full	Title	Citation Front Review Classification Date Reference Sequences Attachments - KMC Draw Desc
	19.	Document ID: US 20030027254 A1

L13: Entry 19 of 78

File: PGPB

Feb 6, 2003

PGPUB-DOCUMENT-NUMBER: 20030027254

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030027254 A1

TITLE: Processes for preparing compositions involving GALR3 receptor specific

compounds

PUBLICATION-DATE: February 6, 2003

# INVENTOR-INFORMATION:

CITY	STATE	COUNTRY	RULE-47
Doylestown	PA	us	
Montclair	NJ	US	
Fair Lawn	NJ	US	
Teaneck	NJ	US	
Ridgewood	NJ	US	•
Waltham	MA	US	
	Doylestown Montclair Fair Lawn Teaneck Ridgewood	Doylestown PA Montclair NJ Fair Lawn NJ Teaneck NJ Ridgewood NJ	Doylestown PA US Montclair NJ US Fair Lawn NJ US Teaneck NJ US Ridgewood NJ US

US-CL-CURRENT: <u>435/69.1</u>; <u>435/320.1</u>, <u>435/325</u>, <u>530/350</u>, <u>536/23.5</u>

# ABSTRACT:

This invention provides an isolated nucleic acid encoding a mammalian galanin receptor, an isolated galanin receptor protein, vectors comprising isolated nucleic acid encoding a mammalian galanin receptor, cells comprising such vectors, antibodies directed to a mammalian galanin receptor, nucleic acid probes useful for detecting nucleic acid encoding a mammalian galanin receptor, antisense oligonucleotides complementary to unique sequences of nucleic acid encoding a mammalian galanin

e

Record List Display Page 13 of 52

receptor, nonhuman transgenic animals which express DNA encoding a normal or a mutant mammalian galanin receptor, as well as methods of determining binding of compounds to mammalian galanin receptors.

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | ----- KildC | Draw Des

20. Document ID: US 20030022277 A1

L13: Entry 20 of 78

File: PGPB

Jan 30, 2003

PGPUB-DOCUMENT-NUMBER: 20030022277

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030022277 A1

TITLE: HUMAN NEUROPEPTIDE RECEPTOR

PUBLICATION-DATE: January 30, 2003

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

SOPPET, DANIEL R. CENTREVILLE VA US
LI, YI SUNNYVALE CA • US

ROSEN, CRAIG A. LAYTONSVILLE MD US

US-CL-CURRENT: 435/69.1; 435/320.1, 435/325, 435/6, 435/7.1, 530/350, 536/23.5

#### ABSTRACT:

The present invention relates to a novel human protein called human <u>neuropeptide</u> <u>receptor</u>, and isolated polynucleotides encoding this protein. Also provided are vectors, host cells, antibodies, and recombinant methods for producing this human protein. The invention further relates to diagnostic and therapeutic methods useful for diagnosing and treating disorders related to this novel human protein.

Full	Title	Citation	Frent	Review	Classification	Date	Reference	Sequences	Attachments	·····	KMC	Drawt Desc

21. Document ID: US 20030018184 A1

L13: Entry 21 of 78 File: PGPB Jan 23, 2003

PGPUB-DOCUMENT-NUMBER: 20030018184

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030018184 A1

TITLE: Recombinant C140 receptor, its agonists and antagonists, and nucleic acids

encoding the receptor

PUBLICATION-DATE: January 23, 2003

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Sundelin, Johan Furulund CA SE Scarborough, Robert M. Belmont US

Page 14 of 52

#### ABSTRACT:

Nucleic acid molecules encoding the C140 cell surface receptor have been cloned and sequenced. The availability of C140 receptor DNA permits the recombinant production of the C140 receptor which can be produced on the surface of a cell, including an oocyte. The nucleic acid molecules are useful in an assay for detecting a substance which affects C140 receptor activity, either receptor agonists or antagonists. Further, the elucidation of the structure of the C140 receptor permits the design of agonist and antagonist compounds which are useful in such assays. The availability of the C140 receptor also permits production of antibodies specifically immunoreactive with one or more antigenic epitopes of the C140 receptor.

Full	Title	Citation   Front	Review	Classification	Date	Reference	Sequences	Attachments	,	KONGC	Draw Desc
<b></b>	22.	Document II	D: US 20	002018264	8 A1						
L13:	Entr	y 22 of 78				File:	PGPB		D	ec 5,	2002

Dec 5, 2002

PGPUB-DOCUMENT-NUMBER: 20020182648

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020182648 A1

TITLE: Ordered two-and three-dimensional structures of amphiphilic molecules

PUBLICATION-DATE: December 5, 2002

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Mojtabai, Fatemeh Demarest

US-CL-CURRENT: <u>435/7.9</u>; <u>435/194</u>, <u>435/287.2</u>, <u>530/350</u>

## ABSTRACT:

The invention pertains, at least in part, to a method for forming an ordered structure of amphiphilic molecules, such as proteins. The method includes contacting a population of amphiphilic molecules with a interface; compressing said population laterally to an appropriate pressure, such that an ordered structure at the interface is formed. The invention also pertains to the two- and three-dimensional ordered structures that are formed using the planar membrane compression method of the invention.

Full Title	Citation Front	Review Classification	Date Reference	Sequences Attachma	ants	KMMC Dramu Desc
	······	***************************************	<b>~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~</b>	······	······	······

23. Document ID: US 20020172940 A1

L13: Entry 23 of 78 File: PGPB Nov 21, 2002

PGPUB-DOCUMENT-NUMBER: 20020172940

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020172940 A1

h e b b g ee e f ef e heh

TITLE: Methods and reagents for isolating biologically active peptides

PUBLICATION-DATE: November 21, 2002

INVENTOR-INFORMATION:

NAME

CITY

STATE COUNTRY

RULE-47

Gyuris, Jeno

Winchester

MΑ

Morris, Aaron J.

Boston

ΜÀ

US

US-CL-CURRENT: 435/5; 435/7.1, 435/7.32, 436/518, 530/324, 530/350

### ABSTRACT:

One aspect of the present invention is the synthesis of a binary method that combines variegated peptide display libraries, e.g., in a "display mode", with soluble secreted peptide libraries, e.g., in a "secretion mode", to yield a method for the efficient isolation of peptides having a desired biological activity.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	·	KMMC Draw Desc

# 24. Document ID: US 20020157119 A1

L13: Entry 24 of 78

File: PGPB

Oct 24, 2002

PGPUB-DOCUMENT-NUMBER: 20020157119

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020157119 A1

TITLE: Identification of activated receptors and ion channels

PUBLICATION-DATE: October 24, 2002

INVENTOR-INFORMATION:

NAME

CITY

STATE

COUNTRY RULE-47

Beachy, Philip A.

Towson

MD

US

Taipale, Jussi

Baltimore

MD

US

US-CL-CURRENT: 800/8; 435/194, 435/320.1, 435/354, 435/6, 435/7.1, 530/350

# ABSTRACT:

The present invention related to methods and reagents for generating and using activating mutations of receptors and ion channels.

	nt Review Classification	Date Reference S	equences Attachments	1000C Draw Desi
•	'			

# 25. Document ID: US 20020150973 A1

L13: Entry 25 of 78

File: PGPB

Oct 17, 2002

PGPUB-DOCUMENT-NUMBER: 20020150973

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020150973 A1

TITLE: Compositions and methods for the diagnosis and treatment of body weight disorders, including obesity

PUBLICATION-DATE: October 17, 2002

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Moore, Karen Maynard MA US Nagle, Deborah Lynn Watertown MA US

 $\text{US-CL-CURRENT: } \underline{435/69.1}; \ \underline{435/183}, \ \underline{435/320.1}, \ \underline{435/325}, \ \underline{435/6}, \ \underline{530/350}, \ \underline{536/23.2}$ 

# ABSTRACT:

The present invention relates to mammalian mahogany genes, including the human mahogany gene, which are novel genes involved in the control of mammalian body weight. The invention encompasses nucleotide sequences of the mahogany gene, host cell expression systems of the mahogany gene, and hosts which have been transformed by these expression systems, including transgenic animals. The invention also encompasses novel mahogany gene products, including mahogany proteins, polypeptides and peptides containing amino acid sequences mahogany proteins, fusion proteins of mahogany proteins polypeptides and peptides, and antibodies directed against such mahogany gene products. The present invention also relates to methods and compositions for the diagnosis and treatment of mammalian body weight disorders, including obesity, cachexia, and anorexia, and for the identification of subjects susceptible to such disorders. Further, the invention relates to methods of using the mahogany gene and gene products of the invention for the identification of compounds which modulate the expression of the mahogany gene and/or the activity of the mahogany gene product. Such compounds can be useful as therapeutic agents in the treatment of mammalian body weight disorders, including obesity, cachexia, and anorexia.

Full   Title   Citation   Front   Review	Classification   Date   Reference	Sequences Attachments -	KWIC Draw, Desi
	***************************************	***************************************	***************************************

26. Document ID: US 20020115155 A1

L13: Entry 26 of 78 File: PGPB Aug 22, 2002

PGPUB-DOCUMENT-NUMBER: 20020115155

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020115155 A1

TITLE: Human neuropeptide receptor

PUBLICATION-DATE: August 22, 2002

INVENTOR-INFORMATION:

NAME. CITY STATE COUNTRY RULE-47 Soppet, Daniel R. Centreville VΑ US Li, Yi Sunnyvale CA US Rosen, Craig A. Laytonsville US MD

US-CL-CURRENT: 435/69.1; 435/320.1, 435/325, 530/350, 536/23.2

ABSTRACT:

Human neuropeptide receptor polypeptides and DNA (RNA) encoding such polypeptides and a procedure for producing such polypeptides by recombinant techniques is disclosed. Also disclosed are methods for utilizing such polypeptides for identifying antagonists and agonists to such polypeptides and methods of using the agonists and antagonists therapeutically to treat conditions related to the underexpression and overexpression of the neuropeptide receptor polypeptides, respectively. Also disclosed are diagnostic methods for detecting a mutation in the neuropeptide receptor nucleic acid sequences and an altered level of the soluble form of the receptors.

Full	Title   Citation   Front	Review   Classification   Date	Reference	Sequences	Attachments	ea	KNAC	Drawt Desc
		D: US 20020115149 A1		***************************************	······································		************	
L13:	Entry 27 of 78		File:	PGPB		Auo	22.	2002

PGPUB-DOCUMENT-NUMBER: 20020115149

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020115149 A1

TITLE: DNA encoding human 5-HT1D receptors and uses thereof

PUBLICATION-DATE: August 22, 2002

### INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Weinshank, Richard L.	New York	NY	US	
Branchek, Theresa	Teaneck	NJ	US	
Hartig, Paul R.	Mahwah	NJ	US	

US-CL-CURRENT: 435/69.1; 435/252.3, 435/320.1, 435/325, 530/350, 536/23.2

## ABSTRACT:

This invention provides isolated nucleic acid molecules encoding human 5-HT.sub.1D receptors, isolated proteins which are human 5-HT.sub.1D receptors, vectors comprising isolated nucleic acid molecules encoding human 5-HT.sub.1D receptors, mammalian cells comprising such vectors, antibodies directed to the human 5-HT.sub.1D receptors, nucleic acid probes useful for detecting nucleic acid encoding human 5-HT.sub.1D receptors, antisense oligonucleotides complementary to any sequences of a nucleic acid molecule which encodes a human 5-HT.sub.1D receptor, pharmaceutical compounds related to human 5-HT.sub.1D receptors, and nonhuman transgenic animals which express DNA a normal or a mutant human 5-HT.sub.1D receptor. This invention further provides methods for determining ligand binding, detecting expression, drug screening, and treatment involving the human 5-HT.sub.1D receptor.

Full	Title Citat	ion Front	Review	Classification	Date	Reference	Sequences	Attachments	muy	KMC	Draw Desc	
<u> </u>	28. Doc						***************************************			*************	<i></i>	
L13:	Entry 28	of 78				File:	PGPB		Ju]	25.	2002	

Jul 25, 2002

PGPUB-DOCUMENT-NUMBER: 20020098548

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020098548 A1

e b b g ee e f h e h eh ef b e TITLE: DNA encoding a human serotonin (5-HT2) receptor and uses thereof

PUBLICATION-DATE: July 25, 2002

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Kao, Hung-TehHackensackNJUSHartig, Paul R.MahwahNJUSBranchek, TheresaTeaneckNJUS

US-CL-CURRENT: 435/69.1; 435/235.1, 435/320.1, 435/325, 530/350, 536/23.5

#### ABSTRACT:

The present invention provides an isolated nucleic acid molecule encoding an 5-HT.sub.2 receptor, and an isolated protein which is a human 5-HT.sub.2 receptor.

The invention also provides vectors comprising DNA molecules encoding a human 5-HT.sub.2 receptor, and vectors adapted for expression of the 5-HT.sub.2 receptor in bacterial, yeast, or mammalian cells.

In addition, the invention provides a DNA probe useful for detecting nucleic acid encoding the 5-HT.sub.2 receptor, a method for determining whether a ligand which is not known to be capable of binding to the 5-HT.sub.2 receptor can bind to the 5-HT.sub.2 receptor, a method for detecting the presence of 5-HT.sub.2 receptor on the surface of a cell, and a method of screening drugs to identify drugs which specifically interact with, and bind to, the 5-HT.sub.2 receptor.

The invention herein also concerns an antibody directed to the human 5-HT.sub.2 receptor, such as a monoclonal antibody directed to an epitope of the 5-HT.sub.2 receptor present on the surface of a cell and having an amino acid sequence included within the amino acid sequence shown in FIG. 2.

	Citation	Review	Classification	Date	Reference	Sequences	Attachments	<b>,</b>	KWIC Draw, Desc
					-				

29. Document ID: US 20020094334 A1

L13: Entry 29 of 78

File: PGPB

Jul 18, 2002

PGPUB-DOCUMENT-NUMBER: 20020094334

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020094334 A1

TITLE: Selective destruction of cells infected with human immunodeficiency virus

PUBLICATION-DATE: July 18, 2002

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Keener, William K. Idaho Falls ID US Ward, Thomas E. Idaho Falls ID US

US-CL-CURRENT: 424/160.1; 530/350, 530/359, 530/826

ABSTRACT:

Compositions and methods for selectively killing a cell containing a viral protease are disclosed. The composition is a variant of a protein synthesis inactivating toxin wherein a viral protease cleavage site is interposed between the A and B chains. The variant of the type II ribosome-inactivating protein is activated by digestion of the viral protease cleavage site by the specific viral protease. The activated ribosome-inactivating protein then kills the cell by inactivating cellular ribosomes. A preferred embodiment of the invention is specific for human immunodeficiency virus (HIV) and uses ricin as the ribosome-inactivating protein. In another preferred embodiment of the invention, the variant of the ribosome-inactivating protein is modified by attachment of one or more hydrophobic agents. The hydrophobic agent facilitates entry of the variant of the ribosome-inactivating protein into cells and can lead to incorporation of the ribosome-inactivating protein into viral particles. Still another preferred embodiment of the invention includes a targeting moiety attached to the variants of the ribosome-inactivating protein to target the agent to HIV infectable cells.

Full Title Citation	Classification Da	te Reference	Sequences	Attachments	,	KWMC	Draw Desc

30. Document ID: US 20020082202 A1

L13: Entry 30 of 78

File: PGPB

Jun 27, 2002

PGPUB-DOCUMENT-NUMBER: 20020082202

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020082202 A1

TITLE: Screening methods using ligands of the neutropeptide receptor HFGAN72

PUBLICATION-DATE: June 27, 2002

# INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Bergsma, Derk J.	Berwyn	PA	US	
Brooks, David P.	West Chester -	PA	US	
Gellai, Miklos	Devon	PA	US	
Wilson, Shelagh	Beckets Bramfield	TX	GB	
Yanagisawa, Masashi	Dallas		US	

US-CL-CURRENT: 514/12; 435/69.1, 435/7.1, 530/350

# ABSTRACT:

Polypeptides of HFGAN72 receptor ligands and polynucleotides encoding the polypeptides are provided. Methods of using these polypeptides to diagnose diseases relating to the under- or over-expression of HFGAN72 receptor ligands are also provided. In addition, methods of identifying agonists or antagonists of the interaction of HFGAN72 receptor ligands with the HFGAN72 receptor are provided. Methods of treatment by administering the identified agonists or antagonists to patients in need thereof are further disclosed.

Full Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	,,	1000C Draw Desc
								···		
······			······	······	······································		······································		··········	······

31. Document ID: US 20020076755 A1

L13: Entry 31 of 78

File: PGPB

Jun 20, 2002

PGPUB-DOCUMENT-NUMBER: 20020076755

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020076755 A1

TITLE: G protein coupled receptor (GPCR) agonists and antagonists and methods of

activating and inhibiting GPCR using the same

PUBLICATION-DATE: June 20, 2002

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Kuliopulos, Athan Winchester MA US Covic, Lidija Boston MA US

US-CL-CURRENT: 435/69.1; 435/320.1, 435/325, 435/7.1, 514/12, 530/350

#### ABSTRACT:

The invention relates generally to G protein coupled receptors and in particular to agonists and antagonists of G protein receptors and methods of using the same.

Full Title Citation Front Revi	(0) Classification Date	Reference Sequences	Attachments	KMMC   Drawn Desc
	······		······································	

## 32. Document ID: US 20020061522 A1

L13: Entry 32 of 78 File: PGPB May 23, 2002

PGPUB-DOCUMENT-NUMBER: 20020061522

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020061522 A1

TITLE: 1983, 52881, 2398, 45449, 50289, and 52872 novel G protein-coupled receptors

and uses therefor

PUBLICATION-DATE: May 23, 2002

# INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47 Glucksmann, Maria Alexandra Lexington MΑ US Galvin, Katherine M. Jamaica Plain MΑ US Silos-Santiago, Inmaculada Cambridge MΑ US

US-CL-CURRENT: 435/6; 435/320.1, 435/325, 435/7.1, 530/350, 536/23.5

#### ABSTRACT:

The invention provides isolated nucleic acids molecules, designated 1983, 52881, 2398, 45449, 50289, and 52872 nucleic acid molecules, which encode novel G protein-coupled receptor members. The invention also provides antisense nucleic acid molecules, recombinant expression vectors containing 1983, 52881, 2398, 45449, 50289, or 52872 nucleic acid molecules, host cells into which the expression vectors have been introduced, and nonhuman transgenic animals in which a 1983, 52881, 2398, 45449, 50289, or 52872 gene has been introduced or disrupted. The invention still further

е

provides isolated 1983, 52881, 2398, 45449, 50289, or 52872 proteins, fusion proteins, antigenic peptides and anti-1983, 52881, 2398, 45449, 50289, or 52872 antibodies. Diagnostic methods utilizing compositions of the invention are also provided.

Full Title Citation Front Review Classification Date Reference Sequences Attachments

☐ 33. Document ID: US 20020056151 A1

L13: Entry 33 of 78

File: PGPB

May 9, 2002

KNMC - Drawi Desc

PGPUB-DOCUMENT-NUMBER: 20020056151

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020056151 A1

TITLE: Receptors for peptides from insects

PUBLICATION-DATE: May 9, 2002

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Antonicek, Horst-Peter Bergisch Gladbach DE

Friedrich, Gabi Leverkusen DE Schulte, Thomas Koln DE

US-CL-CURRENT: 800/279; 435/320.1, 435/410, 435/69.1, 530/350, 536/23.5

ABSTRACT:

The invention relates to polypeptides having the biological activity of peptide receptors, and to nucleic acids encoding these polypeptides, and in particular to . their use for finding active compounds for crop protection.

Full Title Citation	Front Review	Classification	Date Reference	Sequences Attachments	,	KWIC Draw, Desc
	•					

34. Document ID: US 20020048791 A1

L13: Entry 34 of 78 File: PGPB Apr 25, 2002

PGPUB-DOCUMENT-NUMBER: 20020048791

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020048791 A1

TITLE: Human neuropeptide Y-like G protein-coupled receptor

PUBLICATION-DATE: April 25, 2002

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Zhelnin, Leonid Madison CT US
Bloomquist, Brian T. New Haven CT US

US-CL-CURRENT: <u>435/69.1</u>; <u>435/320.1</u>, <u>435/325</u>, <u>435/69.7</u>, <u>530/350</u>, <u>536/23.5</u>

# ABSTRACT:

Reagents which regulate human neuropeptide Y-like G protein-coupled receptor (NPYlike GPCR) protein and reagents which bind to human NPY-like GPCR gene products can play a role in preventing, ameliorating, or correcting dysfunctions or diseases including, but not limited to, obesity, diabetes, anxiety, hypertension, cocaine withdrawal, congestive heart failure, memory enhancement, cardiac and cerebral vasospasm, pheochromocytoma, ganglioneuroblastoma, Huntington's disease, Alzheimer's disease, and Parkinson's disease.

Full	Titi	ē	Citation	Front	Re	eview						Attachme	,,	K900		Draw (	_
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					······	~~~~	······	 ***********	****	,,,,,,,,,,,,	 ·····		 ,,,,,,,,,,	••••	*******		*****

35. Document ID: US 6800729 B2

L13: Entry 35 of 78

File: USPT

STATE

ZIP CODE

Oct 5, 2004

COUNTRY

US-PAT-NO: 6800729

DOCUMENT-IDENTIFIER: US 6800729 B2

TITLE: Human G-Protein chemokine receptor HDGNR10 (CCR5 receptor)

DATE-ISSUED: October 5, 2004

INVENTOR-INFORMATION:

CITY NAME

> Gaithersburg MD

Li; Yi Ruben; Steven M. Olney

US-CL-CURRENT: 530/350; 530/300

### ABSTRACT:

Human G-protein chemokine receptor polypeptides and DNA (RNA) encoding such polypeptides and a procedure for producing such polypeptides by recombinant techniques is disclosed. Also disclosed are methods for utilizing such polypeptides for identifying antagonists and agonists to such polypeptides and methods of using the agonists and antagonists therapeutically to treat conditions related to the underexpression and overexpression of the G-protein chemokine receptor polypeptides, respectively. Also disclosed are diagnostic methods for detecting a mutation in the G-protein chemokine receptor nucleic acid sequences and detecting a level of the soluble form of the receptors in a sample derived from a host.

59 Claims, 4 Drawing figures Exemplary Claim Number: 1 Number of Drawing Sheets: 4

,	 	
		KOMO Draw Desc
·	 · · · · · · · · · · · · · · · · · · ·	
•		

36. Document ID: US 6770449 B2

L13: Entry 36 of 78 File: USPT Aug 3, 2004

US-PAT-NO: 6770449

DOCUMENT-IDENTIFIER: US 6770449 B2

Record List Display Page 23 of 52

TITLE: Methods of assaying receptor activity and constructs useful in such methods

DATE-ISSUED: August 3, 2004

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Barak; Lawrence S. Durham NC Caron; Marc G. Hillsborough NC

Ferguson; Stephen S. London CA

Zhang; Jie Durham NC

US-CL-CURRENT: 435/7.2; 435/325, 435/4, 435/7.1, 530/350

### ABSTRACT:

Described are methods of detecting G-protein coupled receptor (GPCR) activity in vivo and in vitro; methods of assaying GPCR activity; and methods of screening for GPCR ligands, G protein-coupled receptor kinase (GRK) activity, and compounds that interact with components of the GPCR regulatory process. Constructs useful in such methods are described.

2 Claims, 21 Drawing figures Exemplary Claim Number: 1 Number of Drawing Sheets: 14

Full Title Citation Front	Review Classification	Date Reference	KMC Draw Desc
***************************************			······

37. Document ID: US 6750026 B2

L13: Entry 37 of 78 File: USPT Jun 15, 2004

US-PAT-NO: 6750026

DOCUMENT-IDENTIFIER: US 6750026 B2

TITLE: Screening methods using ligands of the neutropeptide receptor HFGAN72

DATE-ISSUED: June 15, 2004

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY Bergsma; Derk J. Berwyn PΑ Brooks; David P. West Chester PA Gellai; Miklos Devon PA Wilson; Shelagh Beckets Bramfield GB · Yanagisawa; Masashi Dallas TX

US-CL-CURRENT: 435/7.1; 435/252.3, 435/325, 435/4, 530/300, 530/324, 530/399

## ABSTRACT:

Polypeptides of HFGAN72 receptor ligands and polynucleotides encoding the polypeptides are provided. Methods of using these polypeptides to diagnose diseases relating to the under- or over-expression of HFGAN72 receptor ligands are also provided. In addition, methods of identifying agonists or antagonists of the interaction of HFGAN72 receptor ligands with the HFGAN72 receptor are provided.

Methods of treatment by administering the identified agonists or antagonists to patients in need thereof are further disclosed.

2 Claims, 5 Drawing figures Exemplary Claim Number: 1 Number of Drawing Sheets: 5

Full | Title | Citation | Front | Review | Classification | Date | Reference | 38. Document ID: US 6743594 B1 L13: Entry 38 of 78 File: USPT Jun 1, 2004

US-PAT-NO: 6743594

DOCUMENT-IDENTIFIER: US 6743594 B1

TITLE: Methods of screening using human G-protein chemokine receptor HDGNR10 (CCR5)

DATE-ISSUED: June 1, 2004

INVENTOR-INFORMATION:

NAME STATE ZIP CODE COUNTRY CITY

Li; Yi Gaithersburg MD Ruben; Steven M. Olney MD

US-CL-CURRENT:  $\underline{435}/\underline{7.2}$ ;  $\underline{435}/\underline{252.3}$ ,  $\underline{435}/\underline{320.1}$ ,  $\underline{435}/\underline{69.1}$ ,  $\underline{530}/\underline{350}$ ,  $\underline{536}/\underline{23.1}$ 

#### ABSTRACT:

Human G-protein chemokine receptor polypeptides and DNA (RNA) encoding such polypeptides and a procedure for producing such polypeptides by recombinant techniques is disclosed. Also disclosed are methods for utilizing such polypeptides for identifying antagonists and agonists to such polypeptides and methods of using the agonists and antagonists therapeutically to treat conditions related to the underexpression and overexpression of the G-protein chemokine receptor polypeptides, respectively. Also disclosed are diagnostic methods for detecting a mutation in the G-protein chemokine receptor nucleic acid sequences and detecting a level of the soluble form of the receptors in a sample derived from a host.

66 Claims, 4 Drawing figures Exemplary Claim Number: 1 Number of Drawing Sheets: 4

Full	Title	Citation   Front   Review   Classification   Date   Reference   // KMC   Draw Desc
,,,,,,,,,,,	***************************************	
	39.	Document ID: US 6737408 B1

File: USPT

May 18, 2004

L13: Entry 39 of 78

US-PAT-NO: 6737408

DOCUMENT-IDENTIFIER: US 6737408 B1

TITLE: Compounds for control of appetite, blood pressure, cardiovascular response, libido, and circadian rhythm

b g ee e f e b e heh е DATE-ISSUED: May 18, 2004

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Balasubramanium; Ambikaipakan Cincinnati OH Chance; William T. Withamsville OH

US-CL-CURRENT: <u>514/18</u>; <u>435/7.1</u>, <u>514/19</u>, <u>530/300</u>, <u>530/331</u>, <u>530/335</u>, <u>530/344</u>, <u>530/345</u>

## ABSTRACT:

This invention relates generally to dipeptides and tripeptides and to methods for pharmaceutical treatment of mammals using analogs of such dipeptides and tripeptides. More specifically, the invention relates to tripeptides and their analogs, to pharmaceutical compositions containing such dipeptides and tripeptides and to methods of treatment of mammals using such dipeptides and tripeptides. In addition, the invention relates to methods of treatment of mammals using such dipeptides and tripeptides for control of appetite, blood pressure, cardiovascular response, libido, and circadian rhythm.

12 Claims, 3 Drawing figures Exemplary Claim Number: 1 Number of Drawing Sheets: 2

E FOILE	Title Citation Front	Review Classification	Date Beterence		,, _k	COMO	Draini Desc
:=====						.000.0	D. ( C.
			***************************************	······································			
	40. Document ID:	US 6733990 B1					
T.13.	Entry 40 of 78		File	TIC DT	Marr	11	2004

US-PAT-NO: 6733990

DOCUMENT-IDENTIFIER: US 6733990 B1

TITLE: Nucleic acid encoding 15571, a GPCR-like molecule of the secretin-like family

DATE-ISSUED: May 11, 2004

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Hodge; Martin R. Arlington MA

Lloyd; Clare London GB

Weich; Nadine S. Brookline MA

US-CL-CURRENT: 435/69.1; 435/252.3, 435/254.11, 435/320.1, 435/325, 435/471, 435/71.1, 435/71.2, 530/350, 536/23.5

# ABSTRACT:

Novel GPCR-like polypeptides, proteins, and nucleic acid molecules are disclosed. In addition to isolated, full-length GPCR-like proteins, the invention further provides isolated GPCR-like fusion proteins, antigenic peptides, and anti-GPCR-like antibodies. The invention also provides GPCR-like nucleic acid molecules, recombinant expression vectors containing a nucleic acid molecule of the invention, host cells into which the expression vectors have been introduced, and nonhuman transgenic animals in which a GPCR-like gene has been introduced or disrupted. Diagnostic, screening, and therapeutic methods utilizing compositions of the invention are also

Apr 27, 2004

provided.

12 Claims, 28 Drawing figures Exemplary Claim Number: 1 Number of Drawing Sheets: 28

Full Title Citation Front Review Classification Date Reference RWC Draw, Description Descr

File: USPT

US-PAT-NO: 6727348

L13: Entry 41 of 78

DOCUMENT-IDENTIFIER: US 6727348 B2

TITLE: Compositions and methods for the diagnosis and treatment of body weight

disorders, including obesity

DATE-ISSUED: April 27, 2004

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Moore; Karen Maynard MA Nagle; Deborah Lynn Watertown MA

US-CL-CURRENT: 530/350; 435/69.1, 530/300, 536/23.1

#### ABSTRACT:

The present invention relates to mammalian mahogany genes, including the human mahogany gene, which are novel genes involved in the control of mammalian body weight. The invention encompasses nucleotide sequences of the mahogany gene, host cell expression systems of the mahogany gene, and hosts which have been transformed by these expression systems, including transgenic animals. The invention also encompasses novel mahogany gene products, including mahogany proteins, polypeptides and peptides containing amino acid sequences mahogany proteins, fusion proteins of mahogany proteins polypeptides and peptides, and antibodies directed against such mahogany gene products. The present invention also relates to methods and compositions for the diagnosis and treatment of mammalian body weight disorders, including obesity, cachexia, and anorexia, and for the identification of subjects susceptible to such disorders. Further, the invention relates to methods of using the mahogany gene and gene products of the invention for the identification of compounds which modulate the expression of the mahogany gene and/or the activity of the mahogany gene product. Such compounds can be useful as therapeutic agents in the treatment of mammalian body weight disorders, including obesity, cachexia, and anorexia.

17 Claims, 181 Drawing figures Exemplary Claim Number: 1 Number of Drawing Sheets: 173

Full Title Citation Front	Review Classification	Date Reference	-	KMC Draw Desi
	***************************************		*************************************	~~~~

42. Document ID: US 6713277 B1

L13: Entry 42 of 78

File: USPT

Mar 30, 2004

COUNTRY

US-PAT-NO: 6713277

DOCUMENT-IDENTIFIER: US 6713277 B1

TITLE: Methods and composition for the diagnosis and treatment of body weight

disorders, including obesity

DATE-ISSUED: March 30, 2004

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE

Moore; Karen Maynard MA Nagle; Deborah Lynn Watertown MA

US-CL-CURRENT: <u>435/69.1</u>; <u>435/252.3</u>, <u>435/320.1</u>, <u>530/350</u>, <u>536/23.1</u>

#### ABSTRACT:

The present invention relates to mammalian mahogany genes, including the human mahogany gene, which are novel genes involved in the control of mammalian body weight. The invention encompasses nucleotide sequences of the mahogany gene, host cell expression systems of the mahogany gene, and hosts which have been transformed by these expression systems, including transgenic animals. The invention also encompasses novel mahogany gene products, including mahogany proteins, polypeptides and peptides containing amino acid sequences mahogany proteins, fusion proteins of mahogany proteins polypeptides and peptides, and antibodies directed against such mahogany gene products. The present invention also relates to methods and compositions for the diagnosis and treatment of mammalian body weight disorders, including obesity, cachexia, and anorexia, and for the identification of subjects susceptible to such disorders. Further, the invention relates to methods of using the mahogany gene and gene products of the invention for the identification of compounds which modulate the expression of the mahogany gene and/or the activity of the mahogany gene product. Such compounds can be useful as therapeutic agents in the treatment of mammalian body weight disorders, including obesity, cachexia, and anorexia.

28 Claims, 183 Drawing figures Exemplary Claim Number: 1 Number of Drawing Sheets: 173

Full Title Citation Front Review Classification Date Reference		KWMC Draws Desc
	*************	

43. Document ID: US 6641820 B1

L13: Entry 43 of 78 File: USPT Nov 4, 2003

US-PAT-NO: 6641820

DOCUMENT-IDENTIFIER: US 6641820 B1

TITLE: Clostridial toxin derivatives and methods to treat pain

DATE-ISSUED: November 4, 2003

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Donovan; Stephen

Capistrano Beach

CA

US-CL-CURRENT: 424/239.1; 435/252.3, 435/320.1, 435/325, 435/69.1, 435/69.7, 435/70.1, 514/12, 514/14, 514/2, 530/350, 530/412

## ABSTRACT:

Methods for treating a bone tumor, in particular pain associated with bone tumor, by administration to a patient of a therapeutically effective amount of an agent are disclosed. The agent may include a clostridial neurotoxin component attached to a targeting moiety, wherein the targeting moiety is selected from the group consisting of transmission compounds which can be released from neurons upon the transmission of pain signals by the neurons, and compounds substantially similar to the transmission compounds.

8 Claims, 0 Drawing figures Exemplary Claim Number: 1

Full	Title Citation Front Review	Classification   Date   Reference		KNMC Draw Desc
	¥			
Г		535/32 B1		······
*	Entry 44 of 78	File:	USPT	Oct 21, 2003

US-PAT-NO: 6635432

DOCUMENT-IDENTIFIER: US 6635432 B1

TITLE: Peptide potentiation of acid-sensory ion channel in pain

DATE-ISSUED: October 21, 2003

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Welsh; Michael J. Riverside IA
Askwith; Candice C. Iowa City IA

US-CL-CURRENT: 435/7.21; 435/252.3, 435/320.1, 435/4, 435/6, 435/69.1, 436/501, 530/300, 530/350, 536/23.5

#### ABSTRACT:

An assay for determining agonists, antagonists, or modulators for acid-sensing ion channels. The assay is especially useful for screening analgesics. The screening assay can be provided in a kit form. The assay comprises administering the composition to be screened to cells expressing acid-gated channels and then determining whether the composition inhibits, enhances, or has no effect on the channels when acid is introduced. The determination can be performed by analyzing whether a current is sustained by the cells in the presence of the composition and the acid. This current can be compared to that sustained by the FMRFamide and related peptides.

11 Claims, 26 Drawing figures Exemplary Claim Number: 1 Number of Drawing Sheets: 9 Full Title Citation Front Review Classification Data Reference

45. Document ID: US 6632621 B1

L13: Entry 45 of 78

File: USPT

Oct 14, 2003

US-PAT-NO: 6632621

DOCUMENT-IDENTIFIER: US 6632621 B1

** See image for <u>Certificate of Correction</u> **

TITLE: G protein-coupled receptor-like receptors and modulators thereof

DATE-ISSUED: October 14, 2003

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY Lowery; David E. Portage Geary; Timothy G. Kalamazoo ΜI Kubiak; Teresa M. Richland MI Larsen; Martha J. Kalamazoo . ΜI

US-CL-CURRENT:  $\underline{435}/\underline{7.22}$ ;  $\underline{435}/\underline{7.2}$ ,  $\underline{435}/\underline{7.21}$ ,  $\underline{530}/\underline{350}$ ,  $\underline{530}/\underline{388.6}$ ,  $\underline{536}/\underline{23.7}$ ,  $\underline{930}/\underline{210}$ 

## ABSTRACT:

The invention provides neuropeptide ligands, G protein-coupled receptors and methods of screening for modulators of receptor activity. Identified modulators, including neuropeptide ligand mimetics, are useful as biostatic and biocidal agents of varying scope, ranging from lethal activity restricted to particular invertebrate parasites to broad spectrum invertebrate parasiticides active on a wide range of invertebrates, including helminths and insects.

21 Claims, 1 Drawing figures Exemplary Claim Number: 1 Number of Drawing Sheets: 1

Full Title Chation Front	Review Classification	Date Reference		KWMC Drawn Desc
·····		***************************************	,	

# 1 46. Document ID: US 6627197 B2

L13: Entry 46 of 78

File: USPT

Sep 30, 2003

US-PAT-NO: 6627197

DOCUMENT-IDENTIFIER: US 6627197 B2

TITLE: Selective destruction of cells infected with human immunodeficiency virus

DATE-ISSUED: September 30, 2003

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Keener; William K.Idaho FallsIDWard; Thomas E.Idaho FallsID

US-CL-CURRENT: 424/183.1; 424/94.1, 435/23, 514/2, 530/327, 530/350, 530/370, 530/377, 530/826

#### ABSTRACT:

Compositions and methods for selectively killing a cell containing a viral protease are disclosed. The composition is a variant of a protein synthesis inactivating toxin wherein a viral protease cleavage site is interposed between the A and B chains. The variant of the type II ribosome-inactivating protein is activated by digestion of the viral protease cleavage site by the specific viral protease. The activated ribosome-inactivating protein then kills the cell by inactivating cellular ribosomes. A preferred embodiment of the invention is specific for human immunodeficiency virus (HIV) and uses ricin as the ribosome-inactivating protein. In another preferred embodiment of the invention, the variant of the ribosome-inactivating protein is modified by attachment of one or more hydrophobic agents. The hydrophobic agent facilitates entry of the variant of the ribosome-inactivating protein into cells and can lead to incorporation of the ribosome-inactivating protein into viral particles. Still another preferred embodiment of the invention includes a targeting moiety attached to the variants of the ribosome-inactivating protein to target the agent to HIV infectable cells.

43 Claims, 0 Drawing figures Exemplary Claim Number: 1

Full Title Citation Front	Review	Classification   Date	Reference	,,	KikiC Draw Desc

# 47. Document ID: US 6608025 B1

L13: Entry 47 of 78

File: USPT

Aug 19, 2003

US-PAT-NO: 6608025

DOCUMENT-IDENTIFIER: US 6608025 B1

TITLE: Human NESP55 polypeptides, polynucleotides and uses thereof

DATE-ISSUED: August 19, 2003

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Fraser; Douglas Nottingham GB
St. Gallay; Steven Nottingham GB

US-CL-CURRENT: 514/2; 514/16, 514/18, 530/300, 530/328, 530/330, 530/350

#### ABSTRACT:

A substantially pure polypeptide (human NESP55) comprising the amino acid sequence

(SEQ ID NO: 2) IRLEVPKRMDRRSRAQQWRRARHNYNDLCPPIGRRAATALLWLSCSIALL RALATSNARAQQRAAAQQRRSFLNAHHRSGAQVFPESPESESDHEHEEAD LELSLPECLEYEEEFDYETESEIESEIDFETEPETAPTTEPETEPE DDRGPVVPKHSTFGQSLTQRLHALKLRSPDASPSRAPPSTQEPQSPREGE ELKPEDKDPRRDPEESKEPKEEKQRRRCKPKKPTRRDASPESPSKKGPIP IRRH

or a variant, fragment, fusion or derivative thereof, or a fusion of a said variant or fragment or derivative, wherein the polypeptide variant has an amino acid sequence which has at least 90% identity with the amino acid sequence given above.

Record List Display Page 31 of 52

NESP55 or fragments thereof may be useful in medicine for the treatment of obesity.

6 Claims, 2 Drawing figures Exemplary Claim Number: 1
Number of Drawing Sheets: 2

# 48. Document ID: US 6562945 B1

L13: Entry 48 of 78

File: USPT

May 13, 2003

US-PAT-NO: 6562945

DOCUMENT-IDENTIFIER: US 6562945 B1

TITLE: Galanin receptor

DATE-ISSUED: May 13, 2003

#### INVENTOR-INFORMATION:

NAME CTTY STATE ZIP CODE COUNTRY Shi-Hsiang; Shen Beaconsfield CA Sultan; Ahmad Dorval CA Wahlestedt; Claes Montreal CA Walker; Philippe Montreal CA

US-CL-CURRENT: 530/350; 435/320.1, 435/325, 435/69.1

# ABSTRACT:

The present invention is directed to a novel receptor for galanin which has been designated as galanin receptor 2. The invention encompasses both the receptor protein as well as nucleic acids encoding the protein. In addition, the present invention is directed to methods and compositions which rely upon either GAL-R2 proteins or nucleic acids.

8 Claims, 13 Drawing figures Exemplary Claim Number: 1 Number of Drawing Sheets: 11

,				
Full Title Citation Front	Review Classification	Date Reference	il	MMC Draw Desc
Ton Time Onemon Hone	Treview   Classification	Date Reference	<u> </u>	MODIC DIAM DESC

# 49. Document ID: US 6555325 B1

L13: Entry 49 of 78

File: USPT

Apr 29, 2003

US-PAT-NO: 6555325

DOCUMENT-IDENTIFIER: US 6555325 B1

TITLE: System for detection of a functional interaction between a compound and a cellular signal transduction component

, ______

DATE-ISSUED: April 29, 2003

COUNTRY

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE

Oehlen; Lambertus J. Tarrytown NY

US-CL-CURRENT: <u>435/7.31</u>; <u>435/254.2</u>, <u>435/350</u>, <u>435/6</u>, <u>435/69.1</u>, <u>435/69.7</u>, <u>435/7.1</u>, 435/7.2, 530/350, 536/23.4, 536/23.5

#### ABSTRACT:

The present invention makes available a rapid, reproducible, robust assay system for screening and identifying pharmaceutically effective compounds that specifically interact with and modulate the activity of a cellular protein, e.g., a receptor or ion channel. The subject assay enables rapid screening of large numbers of compounds to identify those which act as an agonist or antagonist to the bioactivity of the cellular protein. In this system, the first cell is treated with a compound, and functional interaction of this compound with a cellular receptor yields a secreted signal. A second cell, bearing a receptor for this secreted signal, makes use of an indicator gene in a signaling pathway coupled to this second receptor. The subject assays include methods of identifying compounds which specifically modulate, for example, heterologous receptors coupled to the pheromone response pathway in yeast. The subject assays are particularly amenable to the identification of specific agonists and antagonists of G protein-coupled receptors.

11 Claims, 2 Drawing figures Exemplary Claim Number: 1 Number of Drawing Sheets: 2

Full	Title   Citation   Front   Review   Classification	Date Reference	/ KMC Drain. Desc
C	50. Document ID: US 6504008 B1		
L13:	Entry 50 of 78	File: USPT	Jan 7, 2003

US-PAT-NO: 6504008

DOCUMENT-IDENTIFIER: US 6504008 B1

TITLE: Cell based signal generation

DATE-ISSUED: January 7, 2003

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Xu; Jun Ossining NY
Trueheart; Joshua South Nyack NY

US-CL-CURRENT: <u>530</u>/<u>350</u>; <u>530</u>/<u>371</u>

# ABSTRACT:

The present invention makes available a rapid, reproducible, robust assay system for screening and identifying pharmaceutically effective compounds that specifically interact with and modulate the activity of a cellular protein, e.g., a receptor or ion channel. The subject assay enables rapid screening of large numbers of compounds to identify those which act as an agonist or antagonist to the bioactivity of the cellular protein. In particular, the assay of the invention makes use of a cell that harbors a protein that is responsive to a cellular signal transduction pathway. The protein is operatively linked to a polypeptide which causes a detectable signal to be

generated upon stimulation of the pathway, e.g., when a compound interacts with and modulates the activity of a cellular receptor or ion channel of the cell. Thus, the cell provides a signal generation means comprising a novel fusion protein the expression of which is independent of stimulation/activation of the signal transduction pathway, but the activity of which is responsive to the signal transduction pathway.

6 Claims, 0 Drawing figures Exemplary Claim Number: 1

Full	Title	Citation	Front	Review	Classification	Date	1 65		,,,,,,,	KNNC Draw Desc
			-							

51. Document ID: US 6500436 B2

L13: Entry 51 of 78

File: USPT

Dec 31, 2002

US-PAT-NO: 6500436

DOCUMENT-IDENTIFIER: US 6500436 B2

TITLE: Clostridial toxin derivatives and methods for treating pain

DATE-ISSUED: December 31, 2002

INVENTOR-INFORMATION:

NAME

CITY

STATE ZIP CODE

COUNTRY

Donovan; Stephen

Capistrano Beach

CA

US-CL-CURRENT: 424/239.1; 435/252.3, 435/320.1, 435/325, 435/68.1, 435/69.1, 435/70.1, 514/12, 514/2, 530/350, 530/412, 536/23.1

#### ABSTRACT:

Agents for treating pain, methods for producing the agents and methods for treating pain by administration to a patient of a therapeutically effective amount of the agent. The agent can include a clostridial neurotoxin, or a component or fragment or derivative thereof, attached to a targeting moiety, wherein the targeting moiety is selected from a group consisting of transmission compounds which can be released from neurons upon the transmission of pain signals by the neurons, and compounds substantially similar to the transmission compounds.

22 Claims, 0 Drawing figures Exemplary Claim Number: 1

Full Title Citation Front	Devices Classification 1	Date Reference	 12030
THE CHARGE TORE	Medievo   Classification   1	Date   Welsiellics	 KWMC Draw Desi

52. Document ID: US 6468767 B1

L13: Entry 52 of 78

File: USPT

Oct 22, 2002

US-PAT-NO: 6468767

DOCUMENT-IDENTIFIER: US 6468767 B1

TITLE: DNA encoding a human dopamine D1 receptor and uses thereof

h e b b g ee e f e heh ef b

Aug 27, 2002

DATE-ISSUED: October 22, 2002

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Weinshank; Richard L. New York NY Hartig; Paul R. Kinnelon NJ

US-CL-CURRENT: <u>435/69.1</u>; <u>530/350</u>

#### ABSTRACT:

This invention provides isolated nucleic acid molecules encoding a human dopamine D.sub.1 receptor, isolated proteins which are human dopamine D.sub.1 receptor, vectors comprising isolated nucleic acid molecules encoding a human dopamine D.sub.1 receptor, mammalian cells comprising such vectors, antibodies directed to a human dopamine D.sub.1 receptor, nucleic acid probes useful for detecting nucleic acid encoding human dopamine D.sub.1 receptor, antisense oligonucleotides complementary to any sequences of a nucleic acid molecule which encodes a human dopamine D.sub.1 receptor, pharmaceutical compounds related to human dopamine D.sub.1 receptor, and nonhuman transgenic animals which express DNA a normal or a mutant human dopamine D.sub.1 receptor. This invention further provides methods for determining ligand binding, detecting expression, drug screening, and treatment involving a human dopamine D.sub.1 receptor.

3 Claims, 10 Drawing figures Exemplary Claim Number: 1 Number of Drawing Sheets: 10

Full	Title	Citation Front Review Classification Date Reference KMC Draw Desc
	************	
	53.	Document ID: US 6441133 B1

File: USPT

US-PAT-NO: 6441133

L13: Entry 53 of .78

DOCUMENT-IDENTIFIER: US 6441133 B1

TITLE: Thyrotropin-releasing hormone receptor 2(TRHR-2)

DATE-ISSUED: August 27, 2002

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Walker; Philippe Montreal Cr

US-CL-CURRENT: 530/350; 435/69.1

## ABSTRACT:

The present invention is directed to the novel receptor for TRH which has been designated as TRH receptor 2. The invention encompasses both the receptor protein as well as nucleic acids encoding the protein. In addition, the present invention is directed to methods and compositions which rely upon either TRHR-2 proteins or nucleic acids.

8 Claims, 0 Drawing figures

Exemplary Claim Number: 1

Full Title Citation Front Review Classification Date Reference MARC Draw, Desc

54. Document ID: US 6423504 B1

L13: Entry 54 of 78

File: USPT

Jul 23, 2002

US-PAT-NO: 6423504

DOCUMENT-IDENTIFIER: US 6423504 B1

TITLE: Human-derived bradeion proteins, DNA coding for the proteins, and uses thereof

DATE-ISSUED: July 23, 2002

INVENTOR-INFORMATION:

NAME

CITY

STATE

ZIP CODE

COUNTRY

Tanaka; Manami

Ibaraki

JP

Tanaka; Tomoo

Kanagawa

JP , .

US-CL-CURRENT: <u>435/7.23</u>; <u>424/138.1</u>, <u>435/320.1</u>, <u>435/6</u>, <u>435/69.1</u>, <u>530/350</u>, <u>530/388.1</u>, <u>530/389.1</u>, <u>536/23.5</u>

#### ABSTRACT:

A human-derived bradeion protein, which has the following properties: (i) it is a transmembranous protein; (ii) it has a structure characteristic of growth hormone and cytokine receptors even in a structure of its transmembranous portion when its structure is determined by a hydrophobicity analysis according to Kyte-Doolittle method; (iii) it is expressed at a high level in a human adult brain, and in less amount in the heart, while it is not expressed in other adult organs or fetus; (iv) it induces programmed cell death (apoptosis) when over-expressed in a cultured human nerve cell lines; (v) it induces termination of cell division and aging when over-expressed in a cultured human normal cell; (vi) it is located in cytoplasm, and forms an intracellular aggregate when overexpressed; and (vii) besides human adult neurons, it is specifically expressed in a human colorectal cancer cell line or in a skin cancer cell line, or an analogue thereof.

18 Claims, 8 Drawing figures Exemplary Claim Number: 1,13 Number of Drawing Sheets: 7

Full Title Citation Front Review Classification Date Reference KNAC Draw, Desc

55. Document ID: US 6388055 B1

L13: Entry 55 of 78

File: USPT

May 14, 2002

US-PAT-NO: 6388055

DOCUMENT-IDENTIFIER: US 6388055 B1

TITLE: Mouse CC-CKR5 receptor polypeptide

DATE-ISSUED: May 14, 2002

INVENTOR-INFORMATION:

NAME

CITY

STATE

ZIP CODE

COUNTRY

Bergsma; Derk J.

Berwyn

PΑ

Brawner; Mary E.

Berwyn

PA

Shabon; Usman

Swarthmore

PA

US-CL-CURRENT: <u>530/350;</u> <u>530/351</u>

## ABSTRACT:

Mouse CC-CKR5 polypeptides and DNA (RNA) encoding such mouse CC-CKR5 and a procedure for producing such polypeptides by recombinant techniques is disclosed. Also disclosed are methods for utilizing such mouse CC-CKR5 in the development of gene knockout mice for use as a model for human immunodeficiency virus.

2 Claims, 2 Drawing figures Exemplary Claim Number: 1 Number of Drawing Sheets: 3

Full   Title   Citation   Front		Date Reference	,	KMC Draw Desc
	······	······	······	

56. Document ID: US 6383762 B1

L13: Entry 56 of 78

File: USPT

May 7, 2002

US-PAT-NO: 6383762

DOCUMENT-IDENTIFIER: US 6383762 B1

TITLE: Methods of obtaining compounds that interact with a human serotonin (5-HT2)

receptor

DATE-ISSUED: May 7, 2002

INVENTOR-INFORMATION:

NAME

CITY

STATE

ZIP CODE

Kao; Hung-Teh

Hackensack

NJ

COUNTRY

Hartig; Paul R.

nackensaci

NJ

Branchek; Theresa

Mahwah Teaneck

NJ

US-CL-CURRENT: 435/7.21; 435/325, 435/69.1, 530/350, 536/23.5

# ABSTRACT:

The present invention provides a method of obtaining a composition which comprises determining whether a chemical compound binds to a human 5-HT.sub.2 receptor expressed on the surface of a mammalian cell transfected with a vector adapted for expressing the receptor in the cell, and if the compound binds to the receptor, admixing the compound with a carrier. The present invention further provides a method of obtaining a composition which comprises determining whether a chemical compound binds to and activates or binds to and inhibits activation of a human 5-HT.sub.2 receptor expressed on the surface of a mammalian cell, wherein the human 5-HT.sub.2 receptor is expressed on the surface of a mammalian cell transfected with a vector adapted for expressing the receptor in the cell, and if the compound binds to and activates or binds to and inhibits activation of the receptor, admixing the compound with a carrier.

5 Claims, 4 Drawing figures Exemplary Claim Number: 1 Number of Drawing Sheets: 10

Full Title Citation Front Review Classification Date Reference KMC Draw Desi

57. Document ID: US 6348574 B1

L13: Entry 57 of 78

File: USPT

Feb 19, 2002

US-PAT-NO: 6348574

DOCUMENT-IDENTIFIER: US 6348574 B1

TITLE: Seven transmembrane receptors

DATE-ISSUED: February 19, 2002

INVENTOR-INFORMATION:

NAME

CITY

STATE ZIP CODE

COUNTRY

Godiska; Ronald

Bothell

Gray; Patrick W.

Seattle

WA WA

Schweickart; Vicki Louise

Seattle

WA

US-CL-CURRENT: 530/350; 530/388.22, 536/23.5

# ABSTRACT:

DNA sequences encoding seven novel seven transmembrane receptors and variants thereof are disclosed as well as materials and methods for production of the same by recombinant techniques. Antibody substances specific for each of the seven transmembrane receptors are disclosed as useful for the modulation of the ligand/receptor binding reactions of the receptors.

17 Claims, 2 Drawing figures Exemplary Claim Number: 1 Number of Drawing Sheets: 2

Full   Title   Citation   Front   Review   Classification   Date   Reference	KOMC Drawn Desi
	MANUEL STREET
· ·	

58. Document ID: US 6258556 B1

L13: Entry 58 of 78

File: USPT

Jul 10, 2001

US-PAT-NO: 6258556

DOCUMENT-IDENTIFIER: US 6258556 B1

TITLE: cDNA and genomic clones encoding human .mu. opiate receptor and the purified

gene product

DATE-ISSUED: July 10, 2001

INVENTOR-INFORMATION:

NAME

CITY

STATE ZIP CODE

COUNTRY

IT

Uhl; George Towson Johnson; Peter

MD Perry Hall

Persico; Antonio M.

Milan

MD

Wang; Jia Bei

Baltimore

MD

US-CL-CURRENT: 435/69.1; 435/320.1, 435/325, 530/350, 536/23.5, 536/24.31, 930/10

#### ABSTRACT:

A human .mu. opiate receptor cDNA has been identified from a cerebral cortical CDNA library using sequences from the rat .mu. opiate receptor CDNA. The human .mu. opiate receptor (h.mu.OR1) shares 95% amino acid identity with the rat sequence. The expressed .mu.OR1 recognizes tested opiate drugs and opioid peptides in a sodium- and GTP-sensitive fashion with affinities virtually identical to those displayed by the rat .mu. opiate receptor. Effects on cyclic AMP are similar to those noted for the rat .mu. opiate receptor. Overlapping genomic clones spanning 50 kilobasepairs and hybridizing with the h.mu.OR1 cDNA contains exon sequences encoding the entire open reading frame of the human A opiate receptor are described. Analysis of hybridization to DNA prepared from human rodent hybrid cell lines and chromosomal in situ hybridization studies indicate localization to 6q24-25. An MspI polymorphism, producing a 3.7 kb band, is being used to assess this gene's involvement in neuropsychiatric disorders involving opiatergic systems.

19 Claims, 6 Drawing figures Exemplary Claim Number: 1 Number of Drawing Sheets: 3

(**************************************	· · · · · · · · · · · · · · · · · · ·	 
Full Title Citation Front Review	Classification Date Reference	 KMIC Draw Desc
Con   One   Charlett   Class   Classes	Glassification   Date   Neterence	

## 59. Document ID: US 6255059 B1

L13: Entry 59 of 78

File: USPT

Jul 3, 2001

COUNTRY

US-PAT-NO: 6255059

DOCUMENT-IDENTIFIER: US 6255059 B1

# ** See image for <u>Certificate of Correction</u> **

TITLE: Methods for identifying G protein coupled receptor effectors

DATE-ISSUED: July 3, 2001

## INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE Klein; Christine A. Ossining NY Murphy; Andrew J. M. Montclair NJ Fowlkes; Dana M. Chapel Hill NC Broach; James Princeton NJ Manfredi; John Ossining NY Paul; Jeremy Nyack NY Trueheart; Joshua South Nyack NY

US-CL-CURRENT:  $\underline{435}/\underline{7.31}$ ;  $\underline{435}/\underline{254.2}$ ,  $\underline{435}/\underline{254.21}$ ,  $\underline{435}/\underline{6}$ ,  $\underline{435}/\underline{69.1}$ ,  $\underline{435}/\underline{69.7}$ ,  $\underline{435}/\underline{7.2}$ , <u>530/300</u>, <u>530/350</u>, <u>536/23.4</u>, <u>536/23.5</u>

#### ABSTRACT:

e b h b g ee e f

e heh

ef b

The present invention makes available a rapid, effective assay for screening and identifying pharmaceutically effective compounds that specifically interact with and modulate the activity of a cellular receptor or ion channel. The subject assay enables rapid screening of large numbers of polypeptides in a yeast expression library to identifying those polypeptides which induce or antagonize receptor bioactivity. The subject assay is particularly amenable for identifying surrogate ligands for orphan receptors.

18 Claims, 4 Drawing figures Exemplary Claim Number: 1 Number of Drawing Sheets: 4

Full Title Citation Front Review Classification Date Reference KMC Draw Des

60. Document ID: US 6210967 B1.

L13: Entry 60 of 78

File: USPT

Apr 3, 2001

US-PAT-NO: 6210967

DOCUMENT-IDENTIFIER: US 6210967 B1

TITLE: DNA encoding a mammalian LPA receptor and uses thereof

DATE-ISSUED: April 3, 2001

INVENTOR-INFORMATION:

NAME

CITY

STATE

ZIP CODE

COUNTRY

Bard; Jonathan A.

Doylestown

PA

US-CL-CURRENT:  $\underline{435}/\underline{361}$ ;  $\underline{435}/\underline{252.3}$ ,  $\underline{435}/\underline{320.1}$ ,  $\underline{435}/\underline{325}$ ,  $\underline{435}/\underline{348}$ ,  $\underline{435}/\underline{356}$ ,  $\underline{435}/\underline{357}$ ,

<u>435/365</u>, <u>435/366</u>, <u>530/350</u>, <u>536/23.5</u>, <u>536/24.31</u>

# ABSTRACT:

This invention provides an isolated nucleic acid encoding a mammalian LPA receptor, a purified mammalian LPA receptor, vectors comprising isolated nucleic acid encoding an mammalian LPA receptor, cells comprising such vectors, antibodies directed to a mammalian LPA receptor, nucleic acid probes useful for detecting nucleic acid encoding a mammalian LPA receptor, antisense oligonucleotides complementary to unique sequences of nucleic acid encoding mammalian LPA receptor, transgenic, nonhuman animals which express DNA encoding a normal or a mutant mammalian LPA receptor, methods of isolating an mammalian LPA receptor, methods of treating an abnormality that is linked to the activity of the mammalian LPA receptor, as well as methods of determining binding of compounds to mammalian LPA receptors.

21 Claims, 11 Drawing figures Exemplary Claim Number: 1 Number of Drawing Sheets: 11

Full	Title Citation		Classification	Reference		yerre)	KOMC	Draw Desc

61. Document ID: US 6133420 A

L13: Entry 61 of 78

File: USPT

Oct 17, 2000

e b b g ee e f ef e heh b US-PAT-NO: 6133420

DOCUMENT-IDENTIFIER: US 6133420 A

TITLE: GPR14 polypeptides

DATE-ISSUED: October 17, 2000

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Ames, Jr.; Robert S. Havertown PA
Sarau; Henry M. Harleysville PA
Foley; James J. Radnor PA
Shabon; Usman Swarthmore PA

Bergsma; Derk Berwyn PA

Chambers; Jonathan K. Haslingfield GB

US-CL-CURRENT:  $\underline{530}/\underline{350}$ ;  $\underline{435}/\underline{69.1}$ ,  $\underline{530}/\underline{300}$ ,  $\underline{530}/\underline{324}$ ,  $\underline{530}/\underline{326}$ 

# ABSTRACT:

Human GPR14 polypeptides and polynucleotides and methods for producing such polypeptides by recombinant techniques are disclosed. Also disclosed are methods for utilizing Human GPR14 polypeptides and polynucleotides in the design of protocols for the treatment of infections such as bacterial, fungal, protozoan and viral infections, particularly infections caused by HIV-1 or HIV-2; pain; cancers; anorexia; bulimia; asthma; Parkinson's disease; acute heart failure; hypotension; hypertension; urinary retention; osteoporosis; angina pectoris; myocardial infarction; ulcers; asthma; allergies; benign prostatic hypertrophy; and psychotic and neurological disorders, including anxiety, schizophrenia, manic depression, delirium, dementia, severe mental retardation and dyskinesias, such as Huntington's disease or Gilles dela Tourett's syndrome, among others and diagnostic assays for such conditions.

7 Claims, 8 Drawing figures Exemplary Claim Number: 1 Number of Drawing Sheets: 7

#Full   Title   Citation	Front Review Classifica	ation Date Reference		KWWC Draw Desc
	······································	······································	· · · · · · · · · · · · · · · · · · ·	

# 62. Document ID: US 6087115 A

L13: Entry 62 of 78

File: USPT

Jul 11, 2000

US-PAT-NO: 6087115

DOCUMENT-IDENTIFIER: US 6087115 A

TITLE: Methods of identifying negative antagonists for G protein coupled receptors

DATE-ISSUED: July 11, 2000

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY Gershengorn; Marvin C. New York NY

Arvanitakis; Leandros New York NY Geras-Raaka; Elizabeth Dobbs Ferry NY

Cesarman; Ethel

Hoboken

NJ

US-CL-CURRENT: 435/7.21; 435/252.3, 435/254.11, 435/325, 435/365, 435/6, 435/69.1, 435/7.2, 435/8, 530/350, 536/23.1, 536/23.72, 536/24.1

#### ABSTRACT:

The present invention is directed to a constitutively active G protein coupled receptor of human herpesvirus 8, as well as a method of identifying negative antagonists of a constitutively active G protein coupled receptor. The method comprises co-expressing in a host cell a constitutively active G protein coupled receptor and a reporter protein, wherein expression of the reporter protein is controlled by a promoter responsive to a signalling pathway activated by the constitutively active G protein coupled receptor; exposing the host cell to a test substance; and determining a level of reporter protein activity, wherein the level of reporter protein activity indicates effectiveness of the test substance as a negative antagonist of the constitutively active G protein coupled receptor. The invention further provides a method of preventing tumor formation or cell proliferation caused by a constitutively active G protein coupled receptor. This method comprises administering an amount of the negative antagonist so identified to a subject in an amount effective to prevent tumor formation or cell proliferation.

7 Claims, 8 Drawing figures Exemplary Claim Number: 1 Number of Drawing Sheets: 5

Full Title Citation	Front Review	Classification Date	Reference	,	KWIC Draw Desc
•					

63. Document ID: US 6005074 A

L13: Entry 63 of 78

File: USPT

Dec 21, 1999

US-PAT-NO: 6005074

DOCUMENT-IDENTIFIER: US 6005074 A

TITLE: Cloning of human GPR14 receptor

DATE-ISSUED: December 21, 1999

INVENTOR-INFORMATION:

NAME CITY

CITY

STATE ZIP CODE

ef

COUNTRY

Shabon; Usman

Swarthmore

PA

Bergsma; Derk

Berwyn

PA

US-CL-CURRENT: 530/350; 435/69.1, 530/324

## ABSTRACT:

Human GPR14 polypeptides and polynucleotides and methods for producing such polypeptides by recombinant techniques are disclosed. Also disclosed are methods for utilizing Human GPR14 polypeptides and polynucleotides in the design of protocols for the treatment of infections such as bacterial, fungal, protozoan and viral infections, particularly infections caused by HIV-1 or HIV-2; pain; cancers; anorexia; bulimia; asthma; Parkinson's disease; acute heart failure; hypotension; hypertension; urinary retention; osteoporosis; angina pectoris; myocardial infarction; ulcers; asthma; allergies; benign prostatic hypertrophy; and psychotic and neurological disorders; including anxiety, schizophrenia, manic depression,

delirium, dementia, severe mental retardation and dyskinesias, such as Huntington's disease or Gilles dela Tourett's syndrome, among others and diagnostic assays for such conditions.

4 Claims, 3 Drawing figures Exemplary Claim Number: 1 Number of Drawing Sheets: 3

# 64. Document ID: US 6001970 A

L13: Entry 64 of 78

File: USPT

Dec 14, 1999

US-PAT-NO: 6001970

DOCUMENT-IDENTIFIER: US 6001970 A

TITLE: Modified human neuropeptide Y1 Receptors

DATE-ISSUED: December 14, 1999

#### INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Cascieri; Margaret A. East Windsor NJ
MacNeil; Douglas John Westfield NJ
Strader; Catherine D. Verona NJ

US-CL-CURRENT: 530/350; 536/23.5

## ABSTRACT:

Modified neuropeptide Y receptors having deletions, replacements or additions in the third intracellular domain are identified and methods of making the modified receptors are provided. The invention includes the modified receptors, assays employing the modified receptors, cells expressing the modified receptors, compounds identified through the use of the modified receptors, including modulators of the receptors, and the use of the compounds to treat conditions, including obesity, diabetes, anxiety, hypertension, cocaine withdrawal, congestive heart failure, memory enhancement, cardiac and cerebral vasospasm, pheochromocytoma and ganglioneuroblastoma, and Huntington's, Alzheimer's and Parkinson's diseases.

2 Claims, 4 Drawing figures Exemplary Claim Number: 1 Number of Drawing Sheets: 4

Full Title Citation Front Review Classification Date Reference								
	Full Title Citation	Front	Review	Classification	Date	Reference	·····	

65. Document ID: US 6001963 A

L13: Entry 65 of 78

File: USPT

Dec 14, 1999

US-PAT-NO: 6001963

DOCUMENT-IDENTIFIER: US 6001963 A

h eb bgeeef eheh ef b

# Record List Display

TITLE: Ligands of the neuropeptide receptor HFGAN72

DATE-ISSUED: December 14, 1999

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Bergsma; Derk J. Berwyn PA Yanagisawa; Masashi Dallas TX

US-CL-CURRENT: 530/324; 530/300, 530/350, 530/399

#### ABSTRACT:

Polypeptides of HFGAN72 receptor ligands and polynucleotides encoding the polypeptides are provided. Methods of using these polypeptides to diagnose diseases relating to the under- or over-expression of HFGAN72 receptor ligands are also provided. In addition, methods of identifying agonists or antagonists of the interaction of HFGAN72 receptor ligands with the HFGAN72 receptor are provided. Methods of treatment by administering the identified agonists or antagonists to patients in need thereof are further disclosed.

3 Claims, 5 Drawing figures Exemplary Claim Number: 1 Number of Drawing Sheets: 3

Full Title	Citation   Front   Review	Classification   Dat	e Reference	 KMC Draw Desc
F: 66	Dogument ID: LIC			 

1.... 66. Document ID: US 5989545 A

L13: Entry 66 of 78 File: USPT Nov 23, 1999

US-PAT-NO: 5989545

DOCUMENT-IDENTIFIER: US 5989545 A

TITLE: Clostridial toxin derivatives able to modify peripheral sensory afferent

functions

DATE-ISSUED: November 23, 1999

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY Foster; Keith Alan Wiltshire GB
Duggan; Michael John London GB
Shone; Clifford Charles Wiltshire GB

US-CL-CURRENT: 424/183.1; 424/832, 424/94.67, 435/220, 435/69.1, 435/69.7, 514/2, 530/350, 530/388.22, 530/391.7, 530/402

# ABSTRACT:

The invention relates to an agent specific for peripheral sensory afferents. The agent may inhibit the transmission of signals between a primary sensory afferent and a projection neuron by controlling the release of at least one neurotransmitter or neuromodulator from the primary sensory afferent. The agent may be used in or as a pharmaceutical for the treatment of pain, particularly chronic pain.

43 Claims, 4 Drawing figures Exemplary Claim Number: 1 Number of Drawing Sheets: 4

Full Title Citation Front Review Classification Date Reference

67. Document ID: US 5976814 A

L13: Entry 67 of 78

File: USPT

Nov 2, 1999

COUNTRY

US-PAT-NO: 5976814

DOCUMENT-IDENTIFIER: US 5976814 A

TITLE: DNA encoding a human neuropeptide Y/peptide YY/pancreatic polypeptide receptor

(Y4) and uses thereof

DATE-ISSUED: November 2, 1999

INVENTOR-INFORMATION:

NAME

Bard; Jonathan A.

Walker; Mary W.

Branchek; Theresa

Weinshank; Richard L.

CITY

Elmwood Park

Teaneck

Wyckoff

NJ ŊJ

NJ

STATE

ZIP CODE

Teaneck

NJ

 $\text{US-CL-CURRENT: } \underline{435/7.2}; \ \underline{435/252.3}, \ \underline{435/320.1}, \ \underline{435/325}, \ \underline{435/69.1}, \ \underline{530/300}, \ \underline{530/350}$ 

#### ABSTRACT:

This invention provides methods for determining whether a chemical compound specifically binds to and activates or inhibits activation of a human or rat Y4 receptor.

10 Claims, 9 Drawing figures Exemplary Claim Number: 1 Number of Drawing Sheets: 19

Full Ti	e Citation Front R	eview Classification Dat	e Reference	 KWWC   Drawt Desc
***************************************		•••••		
□ 68	Document ID:	US 5958709 A		

L13: Entry 68 of 78

File: USPT

Sep 28, 1999

US-PAT-NO: 5958709

DOCUMENT-IDENTIFIER: US 5958709 A

TITLE: Processes for identifying compounds that bind to the human Y4 receptor

DATE-ISSUED: September 28, 1999

INVENTOR-INFORMATION:

NAME

CITY

STATE ZIP CODE

е

COUNTRY

Bard; Jonathan A.

Wyckoff

h e b g ee e f e h eh ef b Walker; Mary W.
Branchek; Theresa
Weinshank; Richard L.

Elmwood Park NJ
Teaneck NJ
New York NY

US-CL-CURRENT: 435/7.21; 435/325, 435/352, 435/363, 435/366, 435/69.1, 530/350

#### ABSTRACT:

This invention provides an isolated nucleic acid molecule encoding a human Y4 receptor, an isolated protein which is a human Y4 receptor, vectors comprising an isolated nucleic acid molecule encoding a human Y4 receptors, mammalian cells comprising such vectors, antibodies directed to the human Y4 receptor, nucleic acid probes useful for detecting nucleic acid encoding human Y4 receptors, antisense oligonucleotides complementary to any sequences of a nucleic acid molecule which encodes a human Y4 receptor, pharmaceutical compounds related to human Y4 receptors, and nonhuman transgenic animals which express DNA a normal or a mutant human Y4 receptor. This invention further provides methods for determining ligand binding, detecting expression, drug screening, and treatment involving the human Y4 receptor.

6 Claims, 12 Drawing figures Exemplary Claim Number: 1 Number of Drawing Sheets: 12

Full	Title   Citation   Front   Review   Classification	Date Reference	,,	KWIC   Draw Desc
	69. Document ID: US 5932702 A	·	***********	
L13:	Entry 69 of 78	File: USPT		Aug 3, 1999

US-PAT-NO: 5932702

DOCUMENT-IDENTIFIER: US 5932702 A

** See image for <u>Certificate of Correction</u> **

TITLE: Human G-protein coupled receptor

DATE-ISSUED: August 3, 1999

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY Fujii; Ryo Ibaraki JP Hinuma; Shuji Ibaraki JP Li; Yi Gaithersburg MD Ruben; Steven M. Olney MD Soppet; Daniel R. Centreville VA

US-CL-CURRENT: 530/350; 435/69.1, 530/300, 530/324, 536/23.5

#### ABSTRACT:

Human G-protein coupled receptor polypeptides and DNA (RNA) encoding such polypeptides and a procedure for producing such polypeptides by recombinant techniques is disclosed. Also disclosed are methods for utilizing such polypeptides for identifying antagonists and agonists to such polypeptides and methods of using the agonists and antagonists therapeutically to treat conditions related to the underexpression and overexpression of the G-protein coupled receptor polypeptides, respectively. Also disclosed are diagnostic methods for detecting a mutation in the

h eb bgeeef eheh ef be

G-protein coupled receptor nucleic acid sequences and an altered level of the soluble form of the receptors.

7 Claims, 3 Drawing figures Exemplary Claim Number: 1 Number of Drawing Sheets: 3

Full Title Citation Fr	ront Review Classification	Date Reference	- KMC Dram Desc

## 70. Document ID: US 5919901 A

L13: Entry 70 of 78

File: USPT

Jul 6, 1999

US-PAT-NO: 5919901

DOCUMENT-IDENTIFIER: US 5919901 A

TITLE: Neuropeptide Y receptor Y5 and nucleic acid sequences

DATE-ISSUED: July 6, 1999

#### INVENTOR-INFORMATION:

Hu; Yinghe North Haven CT  McCaleb; Michael L. Madison CT  Bloomquist; Brian T. New Haven CT  Flores-Riveros; Jaime R. Madison CT  Cornfield; Linda J. Hamden CT	NAME	CITY	STATE	ZIP	CODE	COUNTRY
Bloomquist; Brian T. New Haven CT Flores-Riveros; Jaime R. Madison CT	Hu; Yinghe	North Haven	CT			
Flores-Riveros; Jaime R. Madison CT	McCaleb; Michael L.	Madison	CT			
	Bloomquist; Brian T.	New Haven	CT			
Cornfield; Linda J. Hamden CT	Flores-Riveros; Jaime R.	Madison	CT			
	Cornfield; Linda J.	Hamden	CT			

US-CL-CURRENT: 530/350; 530/395, 536/23.5

## ABSTRACT:

The present invention provides novel NPY/PYY receptor proteins and the nucleic acid sequence encoding them. The invention is directed to the isolation, characterization, and pharmacological use of these receptors and nucleic acids. In particular, this invention provides human and rat NPY/PYY receptors (which we call the NPY Y5 receptor) and nucleic acids. Also provided are recombinant expression constructs useful for transfecting cells and expressing the protein in vitro and in vivo. The invention further provides methods for detecting expression levels of the protein as well as methods for screening for receptor antagonists and agonists to be used for the treatment of obesity or anorexia, respectively.

6 Claims, 2 Drawing figures Exemplary Claim Number: 1 Number of Drawing Sheets: 2

	55 ATT 1			
Full Title Citation Front Revi	ew Classification Date	Reference	,,	KMMC Draw Desc

# 71. Document ID: US 5888811 A

L13: Entry 71 of 78

File: USPT

Mar 30, 1999

US-PAT-NO: 5888811

DOCUMENT-IDENTIFIER: US 5888811 A

h eb b g e e e f e h e h e f b e

## Record List Display

TITLE: Corticotropin-releasing hormone receptor

DATE-ISSUED: March 30, 1999

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Largent; Brian Lee Chadds Ford PA
Chen; Ai-Ru Edison NJ
Kostich; Walter Alan Hockessin DE
Sperle; Karen Marie Hockessin DE

 $\text{US-CL-CURRENT: } \underline{435}/\underline{320.1}; \ \underline{435}/\underline{252.3}, \ \underline{435}/\underline{254.11}, \ \underline{435}/\underline{325}, \ \underline{435}/\underline{69.1}, \ \underline{530}/\underline{300}, \ \underline{530}/\underline{350}, \\ \underline{69.1}, \ \underline{69.$ 

536/23.1, 536/23.5

## ABSTRACT:

A novel human corticotropin releasing hormone (CRH) receptor which is a splice variant of the human CRH.sub.2 receptor subfamily and is designated human CRHR2.gamma. Fragments of CRHR2.gamma. Nucleic acid molecules which encode CRHR2.gamma and fragments, expression vectors comprising the nucleic acid molecules, and host cells containing the expression vectors. Antibodies and antibody fragments capable of binding the novel receptor. Nucleic acid molecules capable of hybridizing with the above nucleic acid molecules. Use of the novel receptor and receptor fragments, antibodies and antibody fragments in testing compounds for CRH antagonist activity and in treating diseases.

24 Claims, 0 Drawing figures Exemplary Claim Number: 13

	Classification   Date   Reference		KOMO Drawn Desi
•			
•			
***************************************	***************************************	***************************************	***************************************

72. Document ID: US 5885785 A

L13: Entry 72 of 78 File: USPT Mar 23, 1999

US-PAT-NO: 5885785

DOCUMENT-IDENTIFIER: US 5885785 A

TITLE: DNA encoding a human serotonin (5-HT2) receptor and uses thereof

DATE-ISSUED: March 23, 1999

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Kao; Hung-Teh Hackensack NJ Hartig; Paul R. Mahwah NJ Branchek; Theresa Teaneck NJ

US-CL-CURRENT: 435/7.21; 435/325, 435/69.1, 530/350, 536/23.5

## ABSTRACT:

The present invention provides an isolated nucleic acid molecule encoding a 5-HT.sub.2 receptor, and an isolated protein which is a human 5-HT.sub.2 receptor. The invention also provides vectors comprising DNA molecules encoding a human 5-HT.sub.2

receptor, and vectors adapted for expression of the 5-HT.sub.2 receptor in bacterial, yeast, or mammalian cells. In addition, the invention provides a DNA probe useful for detecting nucleic acid encoding the 5-HT.sub.2 receptor, a method for determining whether a ligand which is not known to be capable of binding to the 5-HT.sub.2 receptor can bind to the 5-HT.sub.2 receptor, a method for detecting the presence of 5-HT.sub.2 receptor on the surface of a cell, and a method of screening drugs to identify drugs which specifically interact with, and bind to, the 5-HT.sub.2 receptor. The invention herein also concerns an antibody directed to the human 5-HT.sub.2 receptor, such as a monoclonal antibody directed to an epitope of the 5-HT.sub.2 receptor present on the surface of a cell and having an amino acid sequence included within the amino acid sequence shown in FIGS. 2A-2G.

11 Claims, 11 Drawing figures Exemplary Claim Number: 1 Number of Drawing Sheets: 11

Full Title Citation Front Review Classification Date Reference KNAC Draw Desc

73. Document ID: US 5882855 A

L13: Entry 73 of 78

File: USPT

Mar 16, 1999

US-PAT-NO: 5882855

DOCUMENT-IDENTIFIER: US 5882855 A

TITLE: DNA encoding a human dopamine D.sub.1 receptor and uses thereof

DATE-ISSUED: March 16, 1999

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Weinshank; Richard L. New York NY Hartig; Paul R. Kinnelon NJ

US-CL-CURRENT:  $\underline{435}/\underline{6}$ ;  $\underline{435}/\underline{252.3}$ ,  $\underline{435}/\underline{320.1}$ ,  $\underline{435}/\underline{69.1}$ ,  $\underline{435}/\underline{7.1}$ ,  $\underline{435}/\underline{7.2}$ ,  $\underline{530}/\underline{350}$ 

#### ABSTRACT:

h

This invention provides isolated nucleic acid molecules encoding a human dopamine D.sub.1 receptor, isolated proteins which are human dopamine D.sub.1 receptor, vectors comprising isolated nucleic acid molecules encoding a human dopamine D.sub.1 receptor, mammalian cells comprising such vectors, antibodies directed to a human dopamine D.sub.1 receptor, nucleic acid probes useful for detecting nucleic acid encoding human dopamine D.sub.1 receptor, antisense oligonucleotides complementary to any sequences of a nucleic acid molecule which encodes a human dopamine D.sub.1 receptor, pharmaceutical compounds related to human dopamine D.sub.1 receptor, and nonhuman transgenic animals which express DNA a normal or a mutant human dopamine D.sub.1 receptor. This invention further provides methods for determining ligand binding, detecting expression, drug screening, and treatment involving a human dopamine D.sub.1 receptor.

19 Claims, 10 Drawing figures Exemplary Claim Number: 1 Number of Drawing Sheets: 10 74. Document ID: US 5763575 A

L13: Entry 74 of 78

File: USPT

Jun 9, 1998

US-PAT-NO: 5763575

DOCUMENT-IDENTIFIER: US 5763575 A

** See image for Certificate of Correction **

TITLE: Agonist and antagonist peptides of the C140 receptor

DATE-ISSUED: June 9, 1998

INVENTOR-INFORMATION:

NAME

CITY

STATE ZIP CO

COUNTRY

Sundelin; Johan

Furulund

ZIP CODE

CE

Scarborough; Robert M.

Belmont

CA

US-CL-CURRENT: 530/327; 530/300, 530/328, 530/329, 530/330

## ABSTRACT:

Nucleic acid molecules encoding the C140 cell surface receptor have been cloned and sequenced. The availability of C140 receptor DNA permits the recombinant production of the C140 receptor which can be produced on the surface of a cell, including an occyte. The nucleic acid molecules are useful in an assay for detecting a substance which affects C140 receptor activity, either receptor agonists or antagonists. Further, the elucidation of the structure of the C140 receptor permits the design of agonist and antagonist compounds which are useful in such assays. The availability of the C140 receptor also permits production of antibodies specifically immunoreactive with one or more antigenic epitopes of the C140 receptor.

11 Claims, 20 Drawing figures Exemplary Claim Number: 1,8 Number of Drawing Sheets: 16

		· · · · · · · · · · · · · · · · · · ·		
Full Title Citation Front	Review Classification	Date Reference	yq	KOMC Draw Des
	•			<u>,                                     </u>

75. Document ID: US 5759804 A

L13: Entry 75 of 78

File: USPT

Jun 2, 1998

US-PAT-NO: 5759804

DOCUMENT-IDENTIFIER: US 5759804 A

** See image for Certificate of Correction **

TITLE: Isolated nucleic acid encoding seven transmembrane receptors

DATE-ISSUED: June 2, 1998

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Godiska; Ronald Bothell WA

Gray; Patrick W. Seattle W.

Schweickart; Vicki Louise Seattle WA

h e b b g e e e f e h eh ef b

US-CL-CURRENT: 435/69.1; 435/252.3, 435/320.1, 530/350, 536/23.5

#### ABSTRACT:

DNA sequences encoding seven novel seven transmembrane receptors and variants thereof are disclosed as well as materials and methods for production of the same by recombinant techniques. Antibody substances specific for each of the seven transmembrane receptors are disclosed as useful for the modulation of the ligand/receptor binding reactions of the receptors.

26 Claims, 2 Drawing figures Exemplary Claim Number: 1 Number of Drawing Sheets: 2

Full	Title Citation	Front Review	Classification	Date	Reference		<i>y</i> y	KMIC	Draw. Desc
	76. Docum		5683696 A		***************************************		 ***************************************		
L13:	Entry 76 of	78			File	: USPT	No	ov 4,	1997

US-PAT-NO: 5683696

DOCUMENT-IDENTIFIER: US 5683696 A

** See image for Certificate of Correction **

TITLE: Cloning of duffy blood group antigen, gpD

DATE-ISSUED: November 4, 1997

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Pogo; Angel Oscar Pelham NY Chaudhuri; Asok Rego Park NY

US-CL-CURRENT: 424/185.1; 424/184.1, 435/69.3, 435/69.6, 435/71.1, 514/12, 514/13, 514/2, 530/300, 530/358, 530/380, 530/395

## ABSTRACT:

gpD protein, the major subunit of the Duffy blood group antigenic system, has been isolated. gpD protein contains the receptor, by which P. vivax enters red cells and causes malaria. gpD has significant sequence homology with human and rabbit interleukin-8 receptors and, therefore, gpD protein likely is a new class of chemoattractant cytokines receptor. gpD protein cDNA has a quasi-total homology with a human hippocampus cDNA clone HHCMF86 and, therefore, gpD protein or a homologous protein may be present as a neuropeptide receptor in brain. gpD protein is present in all red cell progenitors and it may be a receptor for cell proliferation and/or differentiation. gpD protein cDNA identifies in human kidney a mRNA of the same size as the bone marrow. Since the kidney is not and has no potential to become an erythropoietic organ, this putative chemoattractant receptor may have essential renal functions. gpD protein has therapeutic value in the prevention of malaria and in the regulation of erythrocyte, neural and renal functions and can be combined with physiologically acceptable diluents to yield a therapeutic agent suitable for these purposes. Peptides corresponding to a portion of gpD protein that contains the receptor also have been synthesized. Such peptides have therapeutic usefulness identical to that of gpD protein. gpD protein and such peptides also have utility in the production of therapeutics, e.g., antibodies, complementary peptides, etc., which are also useful to treat malaria and regulate essential erythrocyte, neural and renal functions.

18 Claims, 9 Drawing figures Exemplary Claim Number: 1 Number of Drawing Sheets: 7

Full Title Citation Front	Review Classification Dat	te Reference	/ KWIC	Drawt Desc

77. Document ID: US 5621079 A

L13: Entry 77 of 78

File: USPT

Apr 15, 1997

US-PAT-NO: 5621079

DOCUMENT-IDENTIFIER: US 5621079 A

TITLE: Neuropeptide Y receptor

DATE-ISSUED: April 15, 1997

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY Cascieri; Margaret A. E. Windsor NJLinemeyer; David L. Westfield NJ Macneil; Douglas J. Westfield NJ Shiao; Lin-Lin Avenel NJ Strader; Catherine D. Verona NJ Weinberg; David H. Westfield NJ Tan; Carina P. Metuchen NJ

US-CL-CURRENT: 530/350; 435/69.1

## ABSTRACT:

A novel mammalian neuropeptide Y receptor and method of making the receptor are provided. The invention includes DNA encoding the receptor, the receptor, assays employing the receptor, cells expressing the receptor, antibodies which bind specifically to the receptor, RNA encoded by the DNA sequence or its complementary sequence, and single-stranded DNA with a sequence complementary to the RNA which encodes the receptor. The receptor and assays employing the receptor are useful for identifying compounds which bind to the receptor, including specific modulators of the receptor. Such compounds are useful for treating a variety of disease conditions, including obesity, diabetes, anxiety, hypertension, cocaine withdrawal, congestive heart failure, memory enhancement, cardiac and cerebral vasospasm, pheochromocytoma and ganglioneuroblastoma, and Huntington's, Alzheimer's and Parkinson's diseases.

8 Claims, 13 Drawing figures Exemplary Claim Number: 1 Number of Drawing Sheets: 12

Full Title Citation Front	Review Classification Date Ref	erende	KMIC Draint Desc

78. Document ID: US 5140105 A

L13: Entry 78 of 78

File: USPT

Aug 18, 1992

US-PAT-NO: 5140105

h eb b g ee ef e h eh ef b

DOCUMENT-IDENTIFIER: US 5140105 A

TITLE: Methods and materials for HIV detection

DATE-ISSUED: August 18, 1992

INVENTOR-INFORMATION:

NAME CITY

STATE

ZIP CODE

COUNTRY

Ohno; Tsuneya

Ridgewood

NJ

US-CL-CURRENT: <u>530/350</u>; <u>435/5</u>

#### ABSTRACT:

Disclosed are immunologically active polypeptides, preferably antibodies or antibody fragments, and most preferably monoclonal antibodies, which are reactive with idiotypes of antibodies to human lymphocyte T4 protein and are reactive with the HIV virion in a manner allowing for in vitro and in vivo neutralization of HIV infectivity and detection of HIV particles in biological fluids. Presently preferred embodiments comprise monoclonal anti-monoclonal-anti-human lymphocyte T4 antibodies produced by new murine hybridoma cell lines JT4C8, JT4C12, JT4C16, JT1-1F3, JT1-1F3-E5, JT1-1D7 and JT2-N15. Also disclosed are active and passive vaccination procedures.

3 Claims, 10 Drawing figures Exemplary Claim Number: 1 Number of Drawing Sheets: 5

Full Title Citation Front Review	Classification Date	Reference		KOMC	Draw Desc
	······	***************************************	······	•••••	
Clear Generate Collection	Print	Fwd Refs	Bkwd Refs	Generate 0	ACS
Terms			Documents		
L12 AND neuropeptide	receptor			78	

Display Format: - Change Format

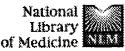
Previous Page Next Page Go to Doc#

b

ef







Fritze? PubMed Nucleotide Protein Genome OMIM PMC Structure demuol. Books Search PubMed for orexin AND receptor AND human Go Clear Limits Preview/Index History Clipboard Details Show: 500 Display | Summary Send to Text About Entrez Items 1 - 137 of 137 One pa 1: Dautzenberg FM, Gutknecht E, Linden IV, Olivares-Reves JA, Text Version Related Articles, Li Durrenberger F, Hauger RL Entrez PubMed Cell-type specific calcium signaling by corticotropin-releasing factor type 1 Overview (CRF(1)) and 2a (CRF(2(a))) receptors: phospholipase C-mediated responses Help | FAQ human embryonic kidney 293 but not SK-N-MC neuroblastoma cells. Tutorial Biochem Pharmacol. 2004 Nov 1;68(9):1833-44. New/Noteworthy E-Utilities PMID: 15450949 [PubMed - in process] 2: Rouet-Benzineb P. Rouyer-Fessard C, Jarry A, Avondo V, Pouzet C, Related Articles, Li PubMed Services Yanagisawa M, Laboisse C, Laburthe M, Voisin T. Journals Database MeSH Database Orexins acting at native OX1 receptor in colon cancer and neuroblastoma cell Single Citation Matcher or at recombinant OX1 receptor suppress cell growth by inducing apoptosis. Batch Citation Matcher-J Biol Chem. 2004 Aug 13 [Epub ahead of print] Clinical Queries PMID: 15310763 [PubMed - as supplied by publisher] LinkOut Cubby **3**: Mignot E. Related Articles, Li Related Resources Sleep, sleep disorders and hypocretin (orexin). Order Documents Sleep Med. 2004 Jun;5 Suppl 1:S2-8. **NLM Catalog** PMID: 15301991 [PubMed - in process] **NLM Gateway** TOXNET 1 4: Thompson MD, Comings DE, Abu-Ghazalah R, Jereseh Y, Lin L, Wade Related Articles, Li Consumer Health J. Sakurai T. Tokita S. Yoshida T. Tanaka H. Yanagisawa M. Burnham Clinical Alerts WM, Moldofsky H. ClinicalTrials.gov PubMed Central Variants of the orexin2/hcrt2 receptor gene identified in patients with excessive daytime sleepiness and patients with Tourette's syndrome comorbidity. Am J Med Genet. 2004 Aug 15;129B(1):69-75. PMID: 15274044 [PubMed - in process] 5: Boehmer LN, Wu MF, John J, Siegel JM. Related Articles, Li Treatment with immunosuppressive and anti-inflammatory agents delays onse of canine genetic narcolepsy and reduces symptom severity. Exp Neurol. 2004 Aug; 188(2):292-9. PMID: 15246829 [PubMed - indexed for MEDLINE] 6: Johren O, Bruggemann N. Dominiak P. Related Articles, Li Orexins (hypocretins) and adrenal function. Horm Metab Res. 2004 Jun; 36(6):370-5. PMID: 15241726 [PubMed - in process] 7: Soffin EM, Gill CH, Brough SJ, Jerman JC, Davies CH. Related Articles, Li Pharmacological characterisation of the orexin receptor subtype mediating postsynaptic excitation in the rat dorsal raphe nucleus. Neuropharmacology. 2004 Jun, 46(8):1168-76. PMID: 15111023 [PubMed - indexed for MEDLINE] 8: Hayaishi O, Huang ZL. Related Articles, Li Role of orexin and prostaglandin E(2) in activating histaminergic

neurotransmission

fcg

cb

h g

e e

Drug News Perspect. 2004 Mar;17(2):105-9. Review. PMID: 15098064 [PubMed - indexed for MEDLINE] 9: Wieczorek S, Dahmen N, Kasten M, Epplen JT, Gencik M. Related Articles, Li A rare form of narcolepsy (HLA-DR2-) shows possible association with (functionally relevant) alpha-interferon gene polymorphisms. Psychiatr Genet. 2004 Mar;14(1):47-51. PMID: 15091316 [PubMed - in process] 10: Khatami R, Maret S, Werth E, Retey J, Schmid D, Maly F, Tafti M. Related Articles, Li Bassetti CL. Monozygotic twins concordant for narcolepsy-cataplexy without any detectable abnormality in the hypocretin (orexin) pathway. Lancet. 2004 Apr 10;363(9416):1199-200. PMID: 15081654 [PubMed - indexed for MEDLINE] 11: Karteris E, Chen J, Randeva HS. Related Articles, Li Expression of human prepro-orexin and signaling characteristics of orexin receptors in the male reproductive system. J Clin Endocrinol Metab. 2004 Apr;89(4):1957-62. PMID: 15070969 [PubMed - indexed for MEDLINE] 12: Mieda M, Willie JT, Hara J, Sinton CM, Sakurai T, Yanagisawa M. Related Articles, Li Orexin peptides prevent cataplexy and improve wakefulness in an orexin neuron-ablated model of narcolepsy in mice. Proc Natl Acad Sci U S A. 2004 Mar 30;101(13):4649-54. Epub 2004 Mar 16. PMID: 15070772 [PubMed - indexed for MEDLINE] 13: Janas-Kozik M, Krupka-Matuszczyk I. Related Articles, Li [The role of orexines in appetite regulation] Psychiatr Pol. 2004 Jan-Feb; 38(1):95-104. Review. Polish. PMID: 15042735 [PubMed - indexed for MEDLINE] 14: Steidl U, Bork S, Schaub S, Selbach O, Seres J, Aivado M, Schroeder Related Articles, Li T, Rohr UP, Fenk R, Kliszewski S, Maercker C, Neubert P, Bornstein SR, Haas HL, Kobbe G, Tenen DG, Haas R, Kronenwett R. Primary human CD34+ hematopoietic stem and progenitor cells express functionally active receptors of neuromediators. Blood. 2004 Jul 1;104(1):81-8. Epub 2004 Mar 11. PMID: 15016651 [PubMed - indexed for MEDLINE] 15: Fabris C, Cozzi B, Hay-Schmidt A, Naver B, Moller M. Related Articles, Li Demonstration of an orexinergic central innervation of the pineal gland of the J Comp Neurol. 2004 Mar 29;471(2):113-27. PMID: 14986306 [PubMed - indexed for MEDLINE] 16: Lang M, Soll RM, Durrenberger F, Dautzenberg FM, Beck-Sickinger Related Articles, Li Structure-activity studies of orexin a and orexin B at the human orexin 1 and orexin 2 receptors led to orexin 2 receptor selective and orexin 1 receptor preferring ligands. J Med Chem. 2004 Feb 26;47(5):1153-60. PMID: 14971895 [PubMed - indexed for MEDLINE] 17: Gerashchenko D, Murillo-Rodriguez E, Lin L, Xu M, Hallett L, Related Articles Li Nishino S, Mignot E, Shiromani PJ. Relationship between CSF hypocretin levels and hypocretin neuronal loss.

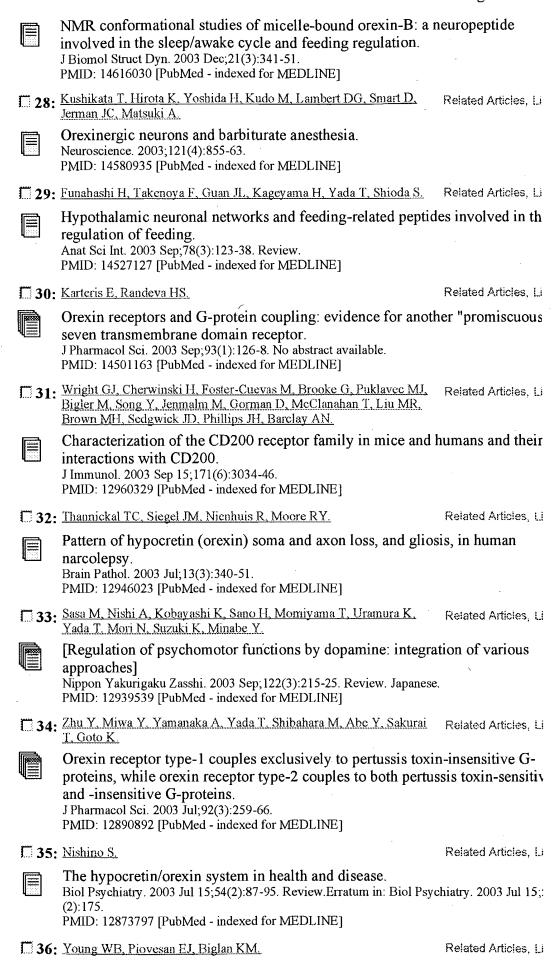
h cb hg e e e fcg

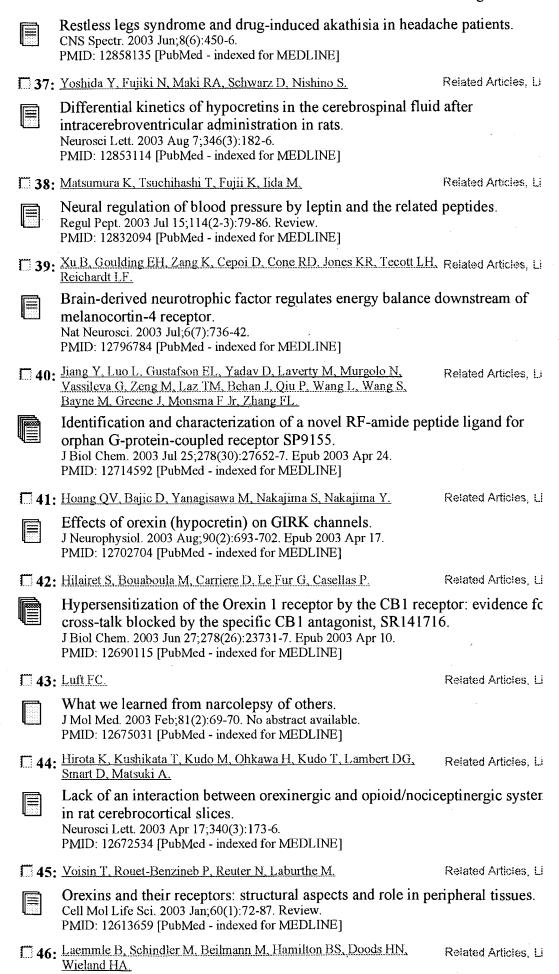
Exp Neurol. 2003 Dec; 184(2): 1010-6.

	PMID: 14769395 [PubMed - indexed for MEDLINE]	
□ 18:	Barreiro ML, Pineda R, Navarro VM, Lopez M, Suominen JS, Pinilla L, Senaris R, Toppari J, Aguilar E, Dieguez C, Tena-Sempere M.	Related Articles, Li
	Orexin 1 receptor messenger ribonucleic acid expression and testosterone secretion by orexin-A in rat testis. Endocrinology. 2004 May;145(5):2297-306. Epub 2004 Feb 05.	d stimulation of
	PMID: 14764632 [PubMed - indexed for MEDLINE]	
□19:	Selbach O, Eriksson KS, Haas HL.	Related Articles, Li
	Drugs to interfere with orexins (hypocretins). Drug News Perspect. 2003 Dec;16(10):669-81. Review. PMID: 14747847 [PubMed - indexed for MEDLINE]	
□ 20:	Siegel JM.	Related Articles, Li
	Hypocretin administration as a treatment for human narcolepsleep. 2003 Dec 15;26(8):932-3. No abstract available. PMID: 14746368 [PubMed - indexed for MEDLINE]	psy.
□ 21:	Sahu A.	Related Articles, Li
	Leptin signaling in the hypothalamus: emphasis on energy h	omeostasis and
	leptin resistance. Front Neuroendocrinol. 2003 Dec;24(4):225-53. Review. PMID: 14726256 [PubMed - indexed for MEDLINE]	
□ 22:	Langmead CJ, Jerman JC, Brough SJ, Scott C, Porter RA, Herdon HJ.	Related Articles, Li
	Characterisation of the binding of [3H]-SB-674042, a novel antagonist, to the human orexin-1 receptor. Br J Pharmacol. 2004 Jan;141(2):340-6. Epub 2003 Dec 22. PMID: 14691055 [PubMed - in process]	nonpeptide
□ 23:	Gunthorpe MJ, Rami HK, Jerman JC, Smart D, Gill CH, Soffin EM, Luis Hannan S, Lappin SC, Egerton J, Smith GD, Worby A, Howett L, Owen D, Nasir S, Davies CH, Thompson M, Wyman PA, Randall AD, Davis JB	Related Articles, Li
	Identification and characterisation of SB-366791, a potent at vanilloid receptor (VR1/TRPV1) antagonist.  Neuropharmacology. 2004 Jan;46(1):133-49.Erratum in: Neuropharmac (6):905.  PMID: 14654105 [PubMed - indexed for MEDLINE]	
□ 24:	Schiefer J.	Related Articles, Li
****	[Narcoleptic dogs. Significance for human narcolepsy] Nervenarzt. 2003 Dec;74(12):1155-6. German. No abstract available. PMID: 14647919 [PubMed - indexed for MEDLINE]	
□ 25:	Peyron C, Charnay Y.	Related Articles, Li
	[Hypocretins/orexins and narcolepsy: from molecules to disc Rev Neurol (Paris). 2003 Nov;159(11 Suppl):6S35-41. Review. French. PMID: 14646798 [PubMed - indexed for MEDLINE]	ease]
□ 26:	Hirose M, Egashira S, Goto Y, Hashihayata T, Ohtake N, Iwaasa H, Hata M, Fukami T, Kanatani A, Yamada K.	Related Articles, Li
	N-acyl 6,7-dimethoxy-1,2,3,4-tetrahydroisoquinoline: the fir receptor selective non-peptidic antagonist. Bioorg Med Chem Lett. 2003 Dec 15;13(24):4497-9. PMID: 14643355 [PubMed - indexed for MEDLINE]	rst orexin-2
□ 27:	Miskolzie M, Lucyk S, Kotovych G.	Related Articles, Li

cb hg e e e fcg

. h





	Characterization of the NPGP receptor and identification of mRNA isoform in human hypothalamus.  Regul Pept. 2003 Mar 28;111(1-3):21-9.  PMID: 12609745 [PubMed - indexed for MEDLINE]	a novel short
□ 47	Ammoun S, Holmqvist T, Shariatmadari R, Oonk HB, Detheux M, Parmentier M, Akerman KE, Kukkonen JP	Related Articles, Li
	Distinct recognition of OX1 and OX2 receptors by orexin p J Pharmacol Exp Ther. 2003 May;305(2):507-14. Epub 2003 Jan 24. PMID: 12606634 [PubMed - indexed for MEDLINE]	eptides.
□ 48	: He TP.	Related Articles, Li
	[Orexina view discovery in obese research] Sheng Li Ke Xue Jin Zhan. 2000 Jan;31(1):47-9. Review. Chinese. No a PMID: 12532767 [PubMed - indexed for MEDLINE]	abstract available.
□ 49	Burdyga G, Lal S, Spiller D, Jiang W, Thompson D, Attwood S, Saeed S, Grundy D, Varro A, Dimaline R, Dockray GJ.	Related Articles, Li
	Localization of orexin-1 receptors to vagal afferent neurons	in the rat and
	humans. Gastroenterology. 2003 Jan;124(1):129-39. PMID: 12512037 [PubMed - indexed for MEDLINE]	
<b>□</b> 50	Asahi S, Egashira S, Matsuda M, Iwaasa H, Kanatani A, Ohkubo M, Ihara M, Morishima H.	Related Articles, Li
	Development of an orexin-2 receptor selective agonist, [Ala orexin-B. Bioorg Med Chem Lett. 2003 Jan 6;13(1):111-3. PMID: 12467628 [PubMed - indexed for MEDLINE]	(11), D-Leu(15)]
□ 51	Dukes-McEwan J, Jackson IJ.	Related Articles, Li
	The promises and problems of linkage analysis by using the genome map.  Mamm Genome. 2002 Nov;13(11):667-72. Review.  PMID: 12461654 [PubMed - indexed for MEDLINE]	current canine
□ 52	Kukkonen JP, Holmqvist T, Ammoun S, Akerman KE	Related Articles, Li
	Functions of the orexinergic/hypocretinergic system. Am J Physiol Cell Physiol. 2002 Dec;283(6):C1567-91. Review.Erratur Physiol. 2003 Apr;284(4):following table of contents. PMID: 12419707 [PubMed - indexed for MEDLINE]	n in: Am J Physiol C
□ 53	Black JL 3rd, Krahn LE, Pankratz VS, Silber M.	Related Articles, Li
	Search for neuron-specific and nonneuron-specific antibodic patients with and without HLA DQB1*0602. Sleep. 2002 Nov 1;25(7):719-23. PMID: 12405606 [PubMed - indexed for MEDLINE]	es in narcoleptic
□ 54	de Lecea L, Sutcliffe JG, Fabre V.	Related Articles, Li
	Hypocretins/orexins as integrators of physiological informa-	tion: lessons fron
(iiiiii)	mutant animals. Neuropeptides. 2002 Apr-Jun;36(2-3):85-95. Review. PMID: 12359500 [PubMed - indexed for MEDLINE]	
□ 55	Kubota H, Kanbayashi T, Tanabe Y, Takanashi J, Kohno Y.	Related Articles, Li
	A case of acute disseminated encephalomyelitis presenting I decreased hypocretin level in cerebrospinal fluid.  J Child Neurol. 2002 Jul;17(7):537-9.  PMID: 12269735 [PubMed - indexed for MEDLINE]	nypersomnia witl

	. Holmowist T. Akarmon VR. Vuldenan ID	Distribud Artistan III
	: Holmqvist T. Akerman KF. Kukkonen JP.  Orexin signaling in recombinant neuron-like cells.	Related Articles, Li
	FEBS Lett. 2002 Aug 28;526(1-3):11-4.	
	PMID: 12208495 [PubMed - indexed for MEDLINE]	
<b>5</b> 7	: Smart D, Jerman J.	Related Articles, Li
	The physiology and pharmacology of the orexins.	
<u>4</u>	Pharmacol Ther: 2002 Apr-May;94(1-2):51-61. Review. PMID: 12191593 [PubMed - indexed for MEDLINE]	
□ 58	: Cupples WA.	Related Articles, Li
2000	Integrating the regulation of food intake.  Am J Physiol Regul Integr Comp Physiol. 2002 Aug;283(2):R356-7. No. PMID: 12121848 [PubMed - indexed for MEDLINE]	o abstract available.
□ <b>5</b> 9	: Peraita-Adrados MR	Related Articles, Li
00000 00000 00000 00000	[Neurobiology of narcolepsy] Neurologia. 2002 Jun-Jul;17(6):307-9. Spanish. No abstract available. PMID: 12084356 [PubMed - indexed for MEDLINE]	
□ 60	: Beuckmann CT, Yanagisawa M.	Related Articles, Li
	Orexins: from neuropeptides to energy homeostasis and sleet J Mol Med. 2002 Jun;80(6):329-42. Epub 2002 Apr 05. Review. PMID: 12072908 [PubMed - indexed for MEDLINE]	ep/wake regulatic
□ 61	Barclay AN, Wright GJ, Brooke G, Brown MH.	Related Articles, Li
	CD200 and membrane protein interactions in the control of Trends Immunol. 2002 Jun;23(6):285-90. Review. PMID: 12072366 [PubMed - indexed for MEDLINE]	myeloid cells.
□ 62	: Sakurai T.	Related Articles, Li
	Roles of orexins in regulation of feeding and wakefulness. Neuroreport. 2002 Jun 12;13(8):987-95. Review. PMID: 12060794 [PubMed - indexed for MEDLINE]	
□ 63	Chilles T. Own M. West, M. W. Miller & D. Miller &	
	Shiba T, Ozu M, Yoshida Y, Mignot E, Nishino S.	Related Articles, Li
	Hypocretin stimulates [(35)S]GTP gamma S binding in Her	
	·	
<b>□</b> 64	Hypocretin stimulates [(35)S]GTP gamma S binding in Hcr lines and in brain homogenate. Biochem Biophys Res Commun. 2002 Jun 14;294(3):615-20.	
☐ ☐ 64	Hypocretin stimulates [(35)S]GTP gamma S binding in Hcr lines and in brain homogenate. Biochem Biophys Res Commun. 2002 Jun 14;294(3):615-20. PMID: 12056812 [PubMed - indexed for MEDLINE]	tr 2-transfected c
	Hypocretin stimulates [(35)S]GTP gamma S binding in Her lines and in brain homogenate. Biochem Biophys Res Commun. 2002 Jun 14;294(3):615-20. PMID: 12056812 [PubMed - indexed for MEDLINE]  Mieda M. Yanagisawa M. Sleep, feeding, and neuropeptides: roles of orexins and orex Curr Opin Neurobiol. 2002 Jun;12(3):339-45. Review.	tr 2-transfected c
	Hypocretin stimulates [(35)S]GTP gamma S binding in Hcr lines and in brain homogenate. Biochem Biophys Res Commun. 2002 Jun 14;294(3):615-20. PMID: 12056812 [PubMed - indexed for MEDLINE]  Mieda M. Yanagisawa M.  Sleep, feeding, and neuropeptides: roles of orexins and orex Curr Opin Neurobiol. 2002 Jun;12(3):339-45. Review. PMID: 12049942 [PubMed - indexed for MEDLINE]	tr 2-transfected c Related Articles, Li in receptors.
☐ ☐ 65	Hypocretin stimulates [(35)S]GTP gamma S binding in Her lines and in brain homogenate. Biochem Biophys Res Commun. 2002 Jun 14;294(3):615-20. PMID: 12056812 [PubMed - indexed for MEDLINE]  Mieda M, Yanagisawa M.  Sleep, feeding, and neuropeptides: roles of orexins and orex Curr Opin Neurobiol. 2002 Jun;12(3):339-45. Review. PMID: 12049942 [PubMed - indexed for MEDLINE]  Smart D, Haynes AC, Williams G, Arch JR.  Orexins and the treatment of obesity. Eur J Pharmacol. 2002 Apr 12;440(2-3):199-212. Review.	tr 2-transfected c Related Articles, Li in receptors.
☐ 65 ☐ 66	Hypocretin stimulates [(35)S]GTP gamma S binding in Her lines and in brain homogenate. Biochem Biophys Res Commun. 2002 Jun 14;294(3):615-20. PMID: 12056812 [PubMed - indexed for MEDLINE]  Mieda M. Yanagisawa M.  Sleep, feeding, and neuropeptides: roles of orexins and orex Curr Opin Neurobiol. 2002 Jun;12(3):339-45. Review. PMID: 12049942 [PubMed - indexed for MEDLINE]  Smart D. Haynes AC, Williams G, Arch JR.  Orexins and the treatment of obesity. Eur J Pharmacol. 2002 Apr 12;440(2-3):199-212. Review. PMID: 12007536 [PubMed - indexed for MEDLINE]  Sutcliffe JG, de Lecea L.  The hypocretins: setting the arousal threshold.	tr 2-transfected c  Related Articles, Li in receptors.  Related Articles, Li
☐ ☐ 65	Hypocretin stimulates [(35)S]GTP gamma S binding in Her lines and in brain homogenate. Biochem Biophys Res Commun. 2002 Jun 14;294(3):615-20. PMID: 12056812 [PubMed - indexed for MEDLINE]  Mieda M, Yanagisawa M.  Sleep, feeding, and neuropeptides: roles of orexins and orex Curr Opin Neurobiol. 2002 Jun;12(3):339-45. Review. PMID: 12049942 [PubMed - indexed for MEDLINE]  Smart D, Haynes AC, Williams G, Arch JR.  Orexins and the treatment of obesity. Eur J Pharmacol. 2002 Apr 12;440(2-3):199-212. Review. PMID: 12007536 [PubMed - indexed for MEDLINE]	tr 2-transfected c  Related Articles, Li in receptors.  Related Articles, Li

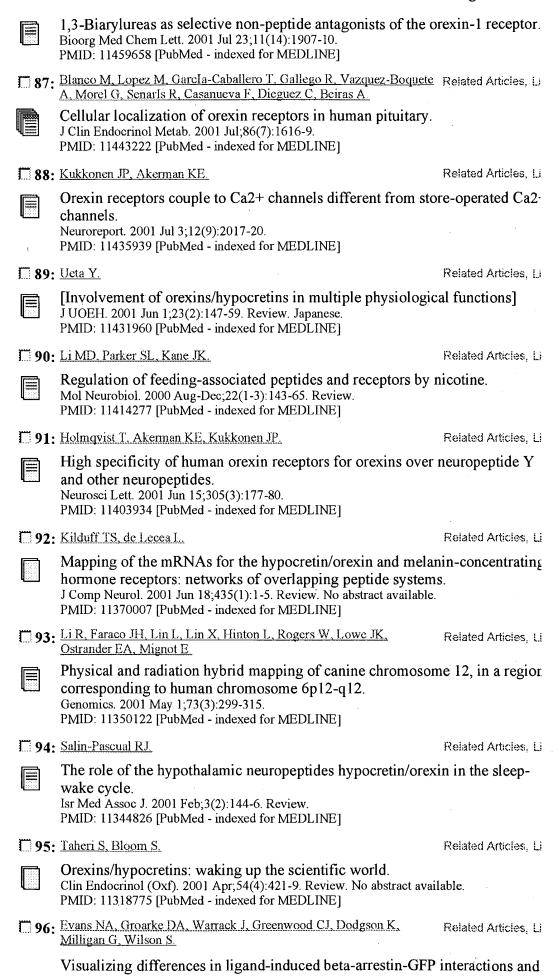
	The hypocretin/orexin system.  J R Soc Med. 2002 May;95(5):227-30. Review. No abstract available. PMID: 11983761 [PubMed - indexed for MEDLINE]	
□ 68:	Tschop M, Morrison KM.	Related Articles, Li
	Weight loss at high altitude. Adv Exp Med Biol. 2001;502:237-47. Review. PMID: 11950142 [PubMed - indexed for MEDLINE]	
□ 69:	Le Poul E, Hisada S, Mizuguchi Y, Dupriez VJ, Burgeon E, Detheux M.	Related Articles, Li
	Adaptation of aequorin functional assay to high throughput s J Biomol Screen. 2002 Feb;7(1):57-65. PMID: 11897056 [PubMed - indexed for MEDLINE]	screening.
□ 70:	Wieland HA, Soll RM, Doods HN, Stenkamp D, Hurnaus R, Lammle B, Beck-Sickinger AG.	Related Articles, LI
	The SK-N-MC cell line expresses an orexin binding site differecombinant orexin 1-type receptor. Eur J Biochem. 2002 Feb;269(4):1128-35. PMID: 11856342 [PubMed - indexed for MEDLINE]	cerent from
□ 71:	Kirchgessner AL.	Related Articles, Li
	Orexins in the brain-gut axis. Endocr Rev. 2002 Feb;23(1):1-15. Review. PMID: 11844742 [PubMed - indexed for MEDLINE]	
	·	
☐ <b>72</b> :	Elmquist JK.	Related Articles, Li
□ 72:	Elimquist JK.  Hypothalamic pathways underlying the endocrine, autonomic effects of leptin.  Int J Obes Relat Metab Disord. 2001 Dec;25 Suppl 5:S78-82. Review.  PMID: 11840221 [PubMed - indexed for MEDLINE]	
	Hypothalamic pathways underlying the endocrine, autonomic effects of leptin.  Int J Obes Relat Metab Disord. 2001 Dec;25 Suppl 5:S78-82. Review.	
	Hypothalamic pathways underlying the endocrine, autonome effects of leptin. Int J Obes Relat Metab Disord. 2001 Dec;25 Suppl 5:S78-82. Review. PMID: 11840221 [PubMed - indexed for MEDLINE] Blanco M, Garcia-Caballero T, Fraga M, Gallego R, Cuevas J, Forteza	ic, and behaviora
73:	Hypothalamic pathways underlying the endocrine, autonomic effects of leptin.  Int J Obes Relat Metab Disord. 2001 Dec;25 Suppl 5:S78-82. Review. PMID: 11840221 [PubMed - indexed for MEDLINE]  Blanco M, Garcia-Caballero T, Fraga M, Gallego R, Cuevas J, Forteza J, Beiras A, Dieguez C.  Cellular localization of orexin receptors in human adrenal gladenomas and pheochromocytomas.  Regul Pept. 2002 Mar 15;104(1-3):161-5.	ic, and behaviora
73:	Hypothalamic pathways underlying the endocrine, autonomic effects of leptin.  Int J Obes Relat Metab Disord. 2001 Dec;25 Suppl 5:S78-82. Review. PMID: 11840221 [PubMed - indexed for MEDLINE]  Blanco M, Garcia-Caballero T, Fraga M, Gallego R, Cuevas J, Forteza J, Beiras A, Dieguez C.  Cellular localization of orexin receptors in human adrenal gladenomas and pheochromocytomas.  Regul Pept. 2002 Mar 15;104(1-3):161-5.  PMID: 11830291 [PubMed - indexed for MEDLINE]	Related Articles, Li  Related Articles, Li  Related Articles, Li
☐ 73: ☐ 74: ☐	Hypothalamic pathways underlying the endocrine, autonomic effects of leptin.  Int J Obes Relat Metab Disord. 2001 Dec;25 Suppl 5:S78-82. Review. PMID: 11840221 [PubMed - indexed for MEDLINE]  Blanco M, Garcia-Caballero T, Fraga M, Gallego R, Cuevas J, Forteza J, Beiras A, Dieguez C.  Cellular localization of orexin receptors in human adrenal gladenomas and pheochromocytomas.  Regul Pept. 2002 Mar 15;104(1-3):161-5.  PMID: 11830291 [PubMed - indexed for MEDLINE]  Hayaishi O.  Molecular genetic studies on sleep-wake regulation, with sp the prostaglandin D(2) system.  J Appl Physiol. 2002 Feb;92(2):863-8. Review.	Related Articles, Li  Related Articles, Li  Related Articles, Li
☐ 73: ☐ 74: ☐	Hypothalamic pathways underlying the endocrine, autonome effects of leptin.  Int J Obes Relat Metab Disord. 2001 Dec;25 Suppl 5:S78-82. Review. PMID: 11840221 [PubMed - indexed for MEDLINE]  Blanco M, Garcia-Caballero T, Fraga M, Gallego R, Cuevas J, Forteza J, Beiras A, Dieguez C.  Cellular localization of orexin receptors in human adrenal gladenomas and pheochromocytomas. Regul Pept. 2002 Mar 15;104(1-3):161-5.  PMID: 11830291 [PubMed - indexed for MEDLINE]  Hayaishi O.  Molecular genetic studies on sleep-wake regulation, with sp the prostaglandin D(2) system.  J Appl Physiol. 2002 Feb;92(2):863-8. Review.  PMID: 11796702 [PubMed - indexed for MEDLINE]	Related Articles, Li land, adrenocorti  Related Articles, Li ecial emphasis of Related Articles, Li in-A regulates bookichi et al.
☐ 73: ☐ 74: ☐ 75:	Hypothalamic pathways underlying the endocrine, autonomic effects of leptin.  Int J Obes Relat Metab Disord. 2001 Dec;25 Suppl 5:S78-82. Review. PMID: 11840221 [PubMed - indexed for MEDLINE]  Blanco M, Garcia-Caballero T, Fraga M, Gallego R, Cuevas J, Forteza J, Beiras A, Dieguez C.  Cellular localization of orexin receptors in human adrenal gladenomas and pheochromocytomas.  Regul Pept. 2002 Mar 15;104(1-3):161-5.  PMID: 11830291 [PubMed - indexed for MEDLINE]  Hayaishi O.  Molecular genetic studies on sleep-wake regulation, with sp the prostaglandin D(2) system.  J Appl Physiol. 2002 Feb;92(2):863-8. Review.  PMID: 11796702 [PubMed - indexed for MEDLINE]  Aronoff DM.  Comments to the editor concerning the paper entitled "Orexitemperature in coordination with arousal status" by Yoshimi Exp Biol Med (Maywood). 2002 Jan;227(1):1-2; discussion 3. No abstra	Related Articles, Li land, adrenocorti  Related Articles, Li ecial emphasis of Related Articles, Li in-A regulates bookichi et al.
☐ 73: ☐ 74: ☐ 75:	Hypothalamic pathways underlying the endocrine, autonomic effects of leptin.  Int J Obes Relat Metab Disord. 2001 Dec;25 Suppl 5:S78-82. Review. PMID: 11840221 [PubMed - indexed for MEDLINE]  Blanco M, Garcia-Caballero T, Fraga M, Gallego R, Cuevas J, Forteza J, Beiras A, Dieguez C.  Cellular localization of orexin receptors in human adrenal gladenomas and pheochromocytomas.  Regul Pept. 2002 Mar 15;104(1-3):161-5.  PMID: 11830291 [PubMed - indexed for MEDLINE]  Hayaishi O.  Molecular genetic studies on sleep-wake regulation, with sp the prostaglandin D(2) system.  J Appl Physiol. 2002 Feb;92(2):863-8. Review.  PMID: 11796702 [PubMed - indexed for MEDLINE]  Aronoff DM.  Comments to the editor concerning the paper entitled "Orexitemperature in coordination with arousal status" by Yoshimi Exp Biol Med (Maywood). 2002 Jan;227(1):1-2; discussion 3. No abstra PMID: 11788776 [PubMed - indexed for MEDLINE]	Related Articles, Li land, adrenocorti  Related Articles, Li ecial emphasis of  Related Articles, Li in-A regulates bookichi et al. act available.  Related Articles, Li ecial explain

Polymorphisms in hypocretin/orexin pathway genes and narcolepsy. Neurology. 2001 Nov 27;57(10):1896-9. PMID: 11723285 [PubMed - indexed for MEDLINE] 78: Nishino S, Fujiki N, Ripley B, Sakurai E, Kato M, Watanabe T, Mignot Related Articles, Li E, Yanai K. Decreased brain histamine content in hypocretin/orexin receptor-2 mutated narcoleptic dogs. Neurosci Lett. 2001 Nov 9;313(3):125-8. PMID: 11682143 [PubMed - indexed for MEDLINE] **79:** Inui A. Related Articles, Li Eating behavior in anorexia nervosa--an excess of both or exigenic and anorexigenic signalling? Mol Psychiatry. 2001 Nov;6(6):620-4. Review. PMID: 11673789 [PubMed - indexed for MEDLINE] 80: Mazzocchi G, Malendowicz LK, Aragona F, Rebuffat P, Gottardo L, Related Articles, Li Nussdorfer GG. Human pheochromocytomas express orexin receptor type 2 gene and display an in vitro secretory response to orexins A and B. J Clin Endocrinol Metab. 2001 Oct;86(10):4818-21. PMID: 11600547 [PubMed - indexed for MEDLINE] 81: Randeva HS, Karteris E, Grammatopoulos D, Hillhouse EW. Related Articles, Li Expression of orexin-A and functional orexin type 2 receptors in the human adult adrenals: implications for adrenal function and energy homeostasis. J Clin Endocrinol Metab. 2001 Oct;86(10):4808-13. PMID: 11600545 [PubMed - indexed for MEDLINE] 82: Gerashchenko D, Kohls MD, Greco M, Waleh NS, Salin-Pascual R. Related Articles, Li Kilduff TS, Lappi DA, Shiromani PJ. Hypocretin-2-saporin lesions of the lateral hypothalamus produce narcoleptic like sleep behavior in the rat. J Neurosci. 2001 Sep 15;21(18):7273-83. PMID: 11549737 [PubMed - indexed for MEDLINE] 83: Karteris E, Randeva HS, Grammatopoulos DK, Jaffe RB, Hillhouse Related Articles, Li Expression and coupling characteristics of the CRH and orexin type 2 recept in human fetal adrenals. J Clin Endocrinol Metab. 2001 Sep;86(9):4512-9. PMID: 11549701 [PubMed - indexed for MEDLINE] 84: Gerashchenko D, Salin-Pascual R, Shiromani PJ. Related Articles, Li Effects of hypocretin-saporin injections into the medial septum on sleep and hippocampal theta. Brain Res. 2001 Sep 14:913(1):106-15. PMID: 11532254 [PubMed - indexed for MEDLINE] 85: Volkoff H, Peter RE. Related Articles, Li Interactions between orexin A, NPY and galanin in the control of food intake of the goldfish, Carassius auratus. Regul Pept. 2001 Sep 15;101(1-3):59-72. PMID: 11495680 [PubMed - indexed for MEDLINE] 86: Porter RA, Chan WN, Coulton S, Johns A, Hadley MS, Widdowson K, Related Articles, Li Jerman JC, Brough SJ, Coldwell M, Smart D, Jewitt F, Jeffrey P, Austin N.

cb

h g

fcg

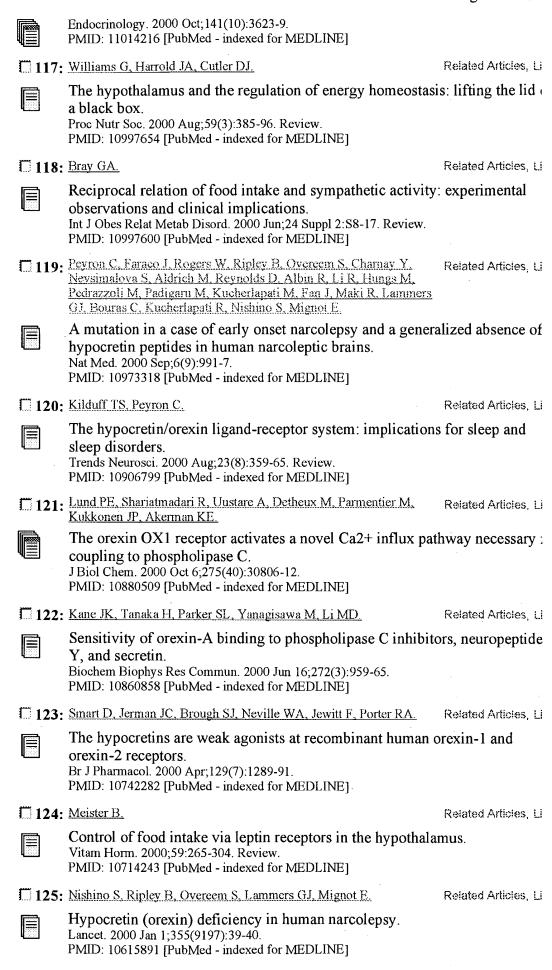


		1 4 5 11 01 13
	trafficking between three recently characterized G protein-c J Neurochem. 2001 Apr;77(2):476-85. PMID: 11299310 [PubMed - indexed for MEDLINE]	oupled receptors.
□ 97:	Blanco M, Lopez M, Garcia-Caballero T, Gallego R, Vazquez-Boquete A, Morel G, Senaris R, Casanueva F, Dieguez C, Beiras A.	Related Articles, Li
	Cellular localization of orexin receptors in human pituitary. J Clin Endocrinol Metab. 2001 Apr;86(4):1616-9. Corrected and republi Endocrinol Metab. 2001 Jul;86(7):1616-9. PMID: 11297593 [PubMed - indexed for MEDLINE]	shed in: <u>J Clin</u>
□ 98:	Willie JT, Chemelli RM, Sinton CM, Yanagisawa M.	Related Articles, Li
	To eat or to sleep? Orexin in the regulation of feeding and w Annu Rev Neurosci. 2001;24:429-58. Review. PMID: 11283317 [PubMed - indexed for MEDLINE]	vakefulness.
□ 99:	Hungs M, Fan J, Lin L, Lin X, Maki RA, Mignot E.	Related Articles, Li
	Identification and functional analysis of mutations in the hygenes of narcoleptic canines.  Genome Res. 2001 Apr;11(4):531-9.  PMID: 11282968 [PubMed - indexed for MEDLINE]	pocretin (orexin)
<b>100</b>	: Hervieu GJ, Cluderay JE, Harrison DC, Roberts JC, Leslie RA.	Related Articles, Li
	Gene expression and protein distribution of the orexin-1 re brain and spinal cord. Neuroscience. 2001;103(3):777-97. PMID: 11274794 [PubMed - indexed for MEDLINE]	ceptor in the rat
101	: Shimizu H, Mori M.	Related Articles, Li
	[Role of leptin and its receptor in the regulation of appetite Nippon Rinsho. 2001 Mar;59(3):421-6. Review. Japanese. PMID: 11268587 [PubMed - indexed for MEDLINE]	and body fat]
□ 102	Darker JG, Porter RA, Eggleston DS, Smart D, Brough SJ, Sabido- David C, Jerman JC	Related Articles, Li
	Structure-activity analysis of truncated orexin-A analogues receptor. Bioorg Med Chem Lett. 2001 Mar 12;11(5):737-40. PMID: 11266181 [PubMed - indexed for MEDLINE]	at the orexin-1
<b>103</b>	: Smart D, Sabido-David C, Brough SJ, Jewitt F, Johns A, Porter RA, Jerman JC	Related Articles, Li
	SB-334867-A: the first selective orexin-1 receptor antagon Br J Pharmacol. 2001 Mar; 132(6):1179-82. PMID: 11250867 [PubMed - indexed for MEDLINE]	ist.
<b>1</b> 104	: Elias CF, Lee CE, Kelly JF, Ahima RS, Kuhar M, Saper CB, Elmquist JK.	Related Articles, Li
2000	Characterization of CART neurons in the rat and human hy J Comp Neurol. 2001 Mar 26;432(1):1-19. PMID: 11241374 [PubMed - indexed for MEDLINE]	pothalamus.
□ 105	: Mignot E. Thorsby E.	Related Articles, Li
	Narcolepsy and the HLA system. N Engl J Med. 2001 Mar 1;344(9):692. No abstract available. PMID: 11229347 [PubMed - indexed for MEDLINE]	
□ 106	: Krahn LE, Black JL, Silber MH.	Related Articles, Li
	Narcolepsy: new understanding of irresistible sleep. Mayo Clin Proc. 2001 Feb;76(2):185-94. Review.	

PMID: 11213307 [PubMed - indexed for MEDLINE] 107: de Lecea L. Sutcliffe JG. Related Articles, Li The hypocretins/orexins: novel hypothalamic neuropeptides involved in different physiological systems. Cell Mol Life Sci. 1999 Oct 30;56(5-6):473-80. Review. PMID: 11212299 [PubMed - indexed for MEDLINE] 108: Mazzocchi G, Malendowicz LK, Gottardo L, Aragona F, Nussdorfer Related Articles, Li GG. Orexin A stimulates cortisol secretion from human adrenocortical cells through activation of the adenylate cyclase-dependent signaling cascade. J Clin Endocrinol Metab. 2001 Feb;86(2):778-82. PMID: 11158046 [PubMed - indexed for MEDLINE] 109: Dick AD, Broderick C, Forrester JV, Wright GJ. Related Articles, Li Distribution of OX2 antigen and OX2 receptor within retina. Invest Ophthalmol Vis Sci. 2001 Jan;42(1):170-6. PMID: 11133863 [PubMed - indexed for MEDLINE] 110: Dun NJ, Le Dun S, Chen CT, Hwang LL, Kwok EH, Chang JK. Related Articles, Li Orexins: a role in medullary sympathetic outflow. Regul Pept. 2000 Dec 22;96(1-2):65-70. Review. PMID: 11102654 [PubMed - indexed for MEDLINE] 111: Sansom C. Related Articles, Li Forty winks: molecular basis of sleep disorders. Mol Med Today. 2000 Dec;6(12):453. No abstract available. PMID: 11099941 [PubMed - indexed for MEDLINE] 112: Thannickal TC, Moore RY, Nienhuis R, Ramanathan L, Gulyani S, Related Articles, Li Aldrich M, Cornford M, Siegel JM. Reduced number of hypocretin neurons in human narcolepsy. Neuron. 2000 Sep;27(3):469-74. PMID: 11055430 [PubMed - indexed for MEDLINE] 113: Wagner JL, Storb R, Storer B, Mignot E. Related Articles, Li DLA-DQB1 alleles and bone marrow transplantation experiments in narcoleptic dogs. Tissue Antigens. 2000 Sep;56(3):223-31. PMID: 11034558 [PubMed - indexed for MEDLINE] 114: Bonini JA, Jones KA, Adham N, Forray C, Artymyshyn R, Durkin Related Articles, Li MM, Smith KE, Tamm JA, Boteju LW, Lakhlani PP, Raddatz R, Yao WJ, Ogozalek KL, Boyle N, Kouranova EV, Quan Y, Vaysse PJ, Wetzel JM. Branchek TA, Gerald C, Borowsky B Identification and characterization of two G protein-coupled receptors for neuropeptide FF. J Biol Chem. 2000 Dec 15;275(50):39324-31. PMID: 11024015 [PubMed - indexed for MEDLINE] 115: Sutcliffe JG, de Lecea L. Related Articles, Li The hypocretins: excitatory neuromodulatory peptides for multiple homeostatic systems, including sleep and feeding. J Neurosci Res. 2000 Oct 15;62(2):161-8. Review. PMID: 11020209 [PubMed - indexed for MEDLINE] 116: Kane JK, Parker SL, Matta SG, Fu Y, Sharp BM, Li MD. Related Articles, Li

Nicotine up-regulates expression of orexin and its receptors in rat brain.

cb



□ 126:	Kastin AJ, Pan W, Maness LM, Banks WA.	Related Articles, Li
	Peptides crossing the blood-brain barrier: some unusual obs Brain Res. 1999 Nov 27;848(1-2):96-100. Review. PMID: 10612701 [PubMed - indexed for MEDLINE]	servations.
<b>127:</b>	Sakurai T.	Related Articles, Li
	Orexins and orexin receptors: implication in feeding behavior Regul Pept. 1999 Nov 30;85(1):25-30. Review. PMID: 10588447 [PubMed - indexed for MEDLINE]	or.
<b>128</b> :	Lee JH, Bang E, Chae KJ, Kim JY, Lee DW, Lee W.	Related Articles, Li
	Solution structure of a new hypothalamic neuropeptide, hur 2/orexin-B. Eur J Biochem. 1999 Dec;266(3):831-9. PMID: 10583376 [PubMed - indexed for MEDLINE]	man hypocretin-
□ 129:	Shibahara M, Sakurai T, Nambu T, Takenouchi T, Iwaasa H, Egashira SI, Ihara M, Goto K.	Related Articles, Li
	Structure, tissue distribution, and pharmacological characte Xenopus orexins. Peptides. 1999;20(10):1169-76. PMID: 10573288 [PubMed - indexed for MEDLINE]	rization of
□ 130:	Kotaska K., Prusa R.	Related Articles, Li
	[Orexins and orexin receptors] Cesk Fysiol. 1999 Aug;48(3):119-21. Review. Czech. PMID: 10568074 [PubMed - indexed for MEDLINE]	
□ 131:	Smart D, Jerman JC, Brough SJ, Rushton SL, Murdock PR, Jewitt F, Elshourbagy NA, Ellis CE, Middlemiss DN, Brown F.	Related Articles, Li
	Characterization of recombinant human orexin receptor phate Chinese hamster ovary cell-line using FLIPR. Br J Pharmacol. 1999 Sep;128(1):1-3. PMID: 10498827 [PubMed - indexed for MEDLINE]	armacology in a
□ 132:	Aldrich MS, Reynolds PR.	Related Articles, Li
	Narcolepsy and the hypocretin receptor 2 gene. Neuron. 1999 Aug;23(4):625-6. No abstract available. PMID: 10482224 [PubMed - indexed for MEDLINE]	
□ 133:	Chemelli RM, Willie JT, Sinton CM, Elmquist JK, Scammell T, Lee C, Richardson JA, Williams SC, Xiong Y, Kisanuki Y, Fitch TE, Nakazato M, Hammer RE, Saper CB, Yanagisawa M.	Related Articles, Li
	Narcolepsy in orexin knockout mice: molecular genetics of Cell. 1999 Aug 20;98(4):437-51. PMID: 10481909 [PubMed - indexed for MEDLINE]	sleep regulation
□ 134:	Siegel JM.	Related Articles, Li
	Narcolepsy: a key role for hypocretins (orexins) Cell. 1999 Aug 20;98(4):409-12. Review. No abstract available. PMID: 10481905 [PubMed - indexed for MEDLINE]	
□ 135:	Lin L, Faraco J, Li R, Kadotani H, Rogers W, Lin X, Qiu X, de Jong PJ, Nishino S, Mignot E.	Related Articles, Li
·	The sleep disorder canine narcolepsy is caused by a mutation hypocretin (orexin) receptor 2 gene. Cell. 1999 Aug 6;98(3):365-76. PMID: 10458611 [PubMed - indexed for MEDLINE]	on in the

Related Articles, Li 136: Cikos S, Gregor P, Koppel J. Sequence and tissue distribution of a novel G-protein-coupled receptor expressed prominently in human placenta. Biochem Biophys Res Commun. 1999 Mar 16;256(2):352-6. PMID: 10079187 [PubMed - indexed for MEDLINE] 137: Sakurai T, Amemiya A, Ishii M, Matsuzaki I, Chemelli RM, Tanaka Related Articles, Li H. Williams SC, Richardson JA, Kozlowski GP, Wilson S, Arch JR, Buckingham RE, Haynes AC, Carr SA, Annan RS, McNulty DE, Liu WS, Terrett JA, Elshourbagy NA, Bergsma DJ, Yanagisawa M. Orexins and orexin receptors: a family of hypothalamic neuropeptides and ( protein-coupled receptors that regulate feeding behavior. Cell. 1998 Feb 20;92(4):573-85. PMID: 9491897 [PubMed - indexed for MEDLINE] Show: 500 Sort Send to Text Summary

Write to the Help Desk

NCBI | NLM | NIH

Department of Health & Human Services

Privacy Statement | Freedom of Information Act | Disclaimer

Oct 13 2004 06:44:09







PubMed Nucleotide OMIM PMC Protein Genome Structure Journals Books Search PubMed for Willie AND Chemelli RM Go Clear Limits Preview/Index History Clipboard Details Display Summary Show: 20 Send to Text Sort About Entrez Items 1 - 5 of 5 One pa 1: Willie JT, Chemelli RM, Sinton CM, Tokita S, Williams SC, Kisanuki Text Version Related Articles, Li YY, Marcus JN, Lee C, Elmquist JK, Kohlmeier KA, Leonard CS, Richardson JA, Hammer RE, Yanagisawa M. Entrez PubMed Overview Distinct narcolepsy syndromes in Orexin receptor-2 and Orexin null mice: Help | FAQ molecular genetic dissection of Non-REM and REM sleep regulatory processe Tutorial Neuron. 2003 Jun 5;38(5):715-30. New/Noteworthy PMID: 12797957 [PubMed - indexed for MEDLINE] E-Utilities 2: Chou TC, Lee CE, Lu J, Elmquist JK, Hara J, Willie JT, Beuckmann CT. Related Articles, Li PubMed Services Chemelli RM, Sakurai T, Yanagisawa M, Saper CB, Scammell TE. Journals Database Orexin (hypocretin) neurons contain dynorphin. MeSH Database Single Citation Matcher J Neurosci. 2001 Oct 1;21(19):RC168. **Batch Citation Matcher** PMID: 11567079 [PubMed - indexed for MEDLINE] Clinical Queries LinkOut 3: Hara J. Beuckmann CT, Nambu T, Willie JT, Chemelli RM, Sinton CM, Related Articles. Li Cubby Sugiyama F, Yagami K, Goto K, Yanagisawa M, Sakurai T. Genetic ablation of orexin neurons in mice results in narcolepsy, hypophagia, = Related Resources and obesity. Order Documents Neuron. 2001 May;30(2):345-54. **NLM Catalog** PMID: 11394998 [PubMed - indexed for MEDLINE] **NLM Gateway** TOXNET Consumer Health 4: Willie JT, Chemelli RM, Sinton CM, Yanagisawa M. Related Articles, Li Clinical Alerts To eat or to sleep? Orexin in the regulation of feeding and wakefulness. ClinicalTrials.gov PubMed Central Annu Rev Neurosci. 2001;24:429-58. Review. PMID: 11283317 [PubMed - indexed for MEDLINE] 5. Chemelli RM, Willie JT, Sinton CM, Elmquist JK, Scammell T, Lee C. Related Articles, Li Richardson JA, Williams SC, Xiong Y, Kisanuki Y, Fitch TE, Nakazato M, Hammer RE, Saper CB, Yanagisawa M. Narcolepsy in orexin knockout mice: molecular genetics of sleep regulation. Cell. 1999 Aug 20;98(4):437-51. PMID: 10481909 [PubMed - indexed for MEDLINE]

Write to the Help Desk

NCBI | NLM | NIH

Department of Health & Human Services

Privacy Statement | Freedom of Information Act | Disclaimer

Sort

* Show: 20

Oct 13 2004 06:44:09

Text

Send to

cb

h g

Display

Summary

fcg







Entrez	beMduff	Nucleotide	Protein	Genome	Structure	MIMO	PMC	Journals	Books
Search	PubMed	for		***************************************			Go	Clear	
		Limits	Previe	w/Index	History	Clip	board	Detai	ls
Shord Em	traz	Display Abstr	act	*	Show: 20	Sort		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	xt

About Entrez

Text Version

Entrez PubMed Overview Help | FAQ Tutorial New/Noteworthy E-Utilities

PubMed Services Journals Database MeSH Database Single Citation Matcher Batch Citation Matcher Clinical Queries LinkOut Cubby

Related Resources Order Documents **NLM Catalog NLM Gateway** TOXNET Consumer Health Clinical Alerts ClinicalTrials.gov PubMed Central

**1:** Annu Rev Neurosci. 2001;24:429-58.

Related Articles, I

ARNUAL REVIEWS

To eat or to sleep? Orexin in the regulation of feeding and wakefulness.

Willie JT, Chemelli RM, Sinton CM, Yanagisawa M.

Howard Hughes Medical Institute, University of Texas Southwestern Medical Center at Dallas, 75390-9050, USA. willie.jon@tumora.swmed.edu

Orexin-A and orexin-B are neuropeptides originally identified as endogenous ligands for two orphan G-protein-coupled receptors. Orexin neuropeptides (als known as hypocretins) are produced by a small group of neurons in the lateral hypothalamic and perifornical areas, a region classically implicated in the cont of mammalian feeding behavior. Orexin neurons project throughout the central nervous system (CNS) to nuclei known to be important in the control of feedin sleep-wakefulness, neuroendocrine homeostasis, and autonomic regulation. orexin mRNA expression is upregulated by fasting and insulin-induced hypoglycemia. C-fos expression in orexin neurons, an indicator of neuronal activation, is positively correlated with wakefulness and negatively correlated with rapid eye movement (REM) and non-REM sleep states. Intracerebroventricular administration of orexins has been shown to significan increase food consumption, wakefulness, and locomotor activity in rodent models. Conversely, an orexin receptor antagonist inhibits food consumption. Targeted disruption of the orexin gene in mice produces a syndrome remarkab similar to human and canine narcolepsy, a sleep disorder characterized by excessive daytime sleepiness, cataplexy, and other pathological manifestations the intrusion of REM sleep-related features into wakefulness. Furthermore, ore knockout mice are hypophagic compared with weight and age-matched littermates, suggesting a role in modulating energy metabolism. These findings suggest that the orexin neuropeptide system plays a significant role in feeding sleep-wakefulness regulation, possibly by coordinating the complex behaviora and physiologic responses of these complementary homeostatic functions.

Publication Types:

- Review
- Review, Academic

PMID: 11283317 [PubMed - indexed for MEDLINE]

Display Abstract	Show: 20 Sort	* ************************************
	J	



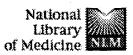




PubMed Entrez Nucleotide Protein Genome Structure OMIM PMC Journals Books Search PubMed for Sakurai AND Amemiya AND Ishii Clear Go Limits Preview/Index History Clipboard Details Show: |500 Display Summary Sort Send to Text About Entrez Items 1 - 7 of 7 One pa 1: Sakurai T, Amemiya A, Ishii M, Matsuzaki I, Chemelli RM, Tanaka H, Text Version Related Articles, Li Williams SC, Richarson JA, Kozlowski GP, Wilson S, Arch JR, Buckingham RE, Haynes AC, Carr SA, Annan RS, McNulty DE, Liu Entrez PubMed WS, Terrett JA, Elshourbagy NA, Bergsma DJ, Yanagisawa M. Overview Help | FAQ Orexins and orexin receptors: a family of hypothalamic neuropeptides and G Tutorial protein-coupled receptors that regulate feeding behavior. New/Noteworthy Cell. 1998 Mar 6;92(5):1 page following 696. No abstract available. E-Utilities PMID: 9527442 [PubMed - indexed for MEDLINE] PubMed Services 1 2: Sakurai T. Amemiya A, Ishii M, Matsuzaki I, Chemelli RM, Tanaka H, Related Articles, Li Journals Database Williams SC, Richardson JA, Kozlowski GP, Wilson S, Arch JR, MeSH Database Buckingham RE, Haynes AC, Carr SA, Annan RS, McNulty DE, Liu Single Citation Matcher WS, Terrett JA, Elshourbagy NA, Bergsma DJ, Yanagisawa M. **Batch Citation Matcher** Clinical Queries Orexins and orexin receptors: a family of hypothalamic neuropeptides and G LinkOut protein-coupled receptors that regulate feeding behavior. Cubby Cell. 1998 Feb 20;92(4):573-85. PMID: 9491897 [PubMed - indexed for MEDLINE] Related Resources Order Documents 13: Suzuki S, Kokubu M, Kijima Y, Maeba E, Akiyama Y, Higashi K, Related Articles, Li **NLM Catalog** <u>Amemiya N. Ohtake J. Kamei K. Yasumuro Y. Nakatake T. Sakurai N.</u> **NLM Gateway** Mochizuki K, Simazu C, Miyajima Y, Kazama M. TOXNET [Improvement of inter-assay for the standardization of PT and TT--clinical Consumer Health Clinical Alerts significance of local standardization method] ClinicalTrials.gov Rinsho Byori. 1997 Apr; 45(4):321-7. Japanese. PubMed Central PMID: 9136595 [PubMed - indexed for MEDLINE] 4: Kasahara T, Sakurai Y, Amemiya M, Oguchi K, Hisamitsu T. Related Articles, Li Suppressive effects of central opioids on delayed type hypersensitivity to trinitrochlorobenzene: comparative study with morphine and electroacupuncture. In Vivo. 1995 May-Jun;9(3):177-81. PMID: 8562877 [PubMed - indexed for MEDLINE] 5: Yoshida K, Amemiya A, Kobayashi S, Sakurai K, Suzuki M, Aizawa S. Related Articles, Li Fibrolamellar carcinoma of the liver in the Orient. J Surg Oncol. 1988 Nov;39(3):187-9. PMID: 2460703 [PubMed - indexed for MEDLINE] 6: Amemiya A. Yamaguchi A. Sakurai K. Related Articles, Li Radiation-induced occlusion of the artery in the distal lower extremity--a case report. Jpn J Surg. 1987 May; 17(3):178-81. PMID: 3626211 [PubMed - indexed for MEDLINE] 7: Sakurai H, Tsuchida A, Takakura H, Amemiya R, Oho K, Hayata Y. Related Articles, Li [Benign mixed tumor in the trachea] Kyobu Geka. 1984 Jan;37(1):23-7. Japanese. No abstract available. PMID: 6716722 [PubMed - indexed for MEDLINE]







Entrez	PubMed	Nucleotide	Protein	Genome	Structure	OMIMO	PMC	Journals	Books
Search PubMed for			<u>.</u>			Go	Clear		
		Limits	Previe	w/Index	History	Clip	board	Detai	ls
About Entrez	:	Display Abs	tract		Show: 20	▼ Sort	2000	Send to Tex	

**Text Version** 

**1:** Cell. 1998 Feb 20;92(4):573-85.

Related Articles, I

Entrez PubMed Overview Help | FAQ Tutorial New/Noteworthy E-Utilities

PubMed Services
Journals Database
MeSH Database
Single Citation Matcher
Batch Citation Matcher
Clinical Queries
LinkOut
Cubby

Related Resources
Order Documents
NLM Catalog
NLM Gateway
TOXNET
Consumer Health
Clinical Alerts
ClinicalTrials.gov
PubMed Central

#### Comment in:

- Cell. 1998 Mar 6;92(5):1 page following 696.
- J Pharmacol Sci. 2003 Sep;93(1):126-8.

Orexins and orexin receptors: a family of hypothalamic neuropeptides and G protein-coupled receptors that regulate feeding behavior.

Sakurai T, Amemiya A, Ishii M, Matsuzaki I, Chemelli RM, Tanaka H, Williams SC, Richardson JA, Kozlowski GP, Wilson S, Arch JR, Buckingham RE, Haynes AC, Carr SA, Annan RS, McNulty DE, Liu WS, Terrett JA, Elshourbagy NA, Bergsma DJ, Yanagisawa M.

Howard Hughes Medical Institute, Department of Molecular Genetics, University of Texas Southwestern Medical Center at Dallas, 75235-9050, USA.

The hypothalamus plays a central role in the integrated control of feeding and energy homeostasis. We have identified two novel neuropeptides, both derived from the same precursor by proteolytic processing, that bind and activate two closely related (previously) orphan G protein-coupled receptors. These peptide termed orexin-A and -B, have no significant structural similarities to known families of regulatory peptides. prepro-orexin mRNA and immunoreactive orexin-A are localized in neurons within and around the lateral and posterior hypothalamus in the adult rat brain. When administered centrally to rats, these peptides stimulate food consumption prepro-orexin mRNA level is up-regulat upon fasting, suggesting a physiological role for the peptides as mediators in the central feedback mechanism that regulates feeding behavior.

PMID: 9491897 [PubMed - indexed for MEDLINE]

Display Abstract -	Show: 20 💌	Sort •	Send to Text

Write to the Help Desk

NCBI | NLM | NIH

Department of Health & Human Services

Privacy Statement | Freedom of Information Act | Disclaimer

Oct 13 2004 06:44:09

h

cb

ng e e e fcg c

ee b b

b o

Order Documents
NLM Catalog
NLM Gateway
TOXNET
Consumer Health
Clinical Alerts
ClinicalTrials.gov
PubMed Central







PubMed Frotein PMC Books Nucleotide Genome Structure OMIM Journals Entrez Search PubMed Clear for Sakurai AND Amemiya AND Ishii Ģο Preview/Index History Clipboard Limits Details Display Summary Show: 500 Sort Send to Text About Entrez Items 1 - 2 of 2 One pa 1: Sakurai T, Amemiya A, Ishii M, Matsuzaki I, Chemelli RM, Tanaka H, **Text Version** Related Articles, Li Williams SC, Richarson JA, Kozlowski GP, Wilson S, Arch JR, Buckingham RE, Haynes AC, Carr SA, Annan RS, McNulty DE, Liu Entrez PubMed WS, Terrett JA, Elshourbagy NA, Bergsma DJ, Yanagisawa M. Overview Help | FAQ Orexins and orexin receptors: a family of hypothalamic neuropeptides and G Tutorial protein-coupled receptors that regulate feeding behavior. New/Noteworthy Cell. 1998 Mar 6;92(5): 1 page following 696. No abstract available. E-Utilities PMID: 9527442 [PubMed - indexed for MEDLINE] **PubMed Services** 2: Sakurai T, Amemiya A, Ishii M, Matsuzaki I, Chemelli RM, Tanaka H, Related Articles, Li Journals Database Williams SC, Richardson JA, Kozlowski GP, Wilson S, Arch JR, MeSH Database Buckingham RE, Haynes AC, Carr SA, Annan RS, McNulty DE, Liu Single Citation Matcher WS, Terrett JA, Elshourbagy NA, Bergsma DJ, Yanagisawa M. **Batch Citation Matcher Clinical Queries** Orexins and orexin receptors: a family of hypothalamic neuropeptides and G LinkOut protein-coupled receptors that regulate feeding behavior. Cubby Cell. 1998 Feb 20;92(4):573-85. PMID: 9491897 [PubMed - indexed for MEDLINE] Related Resources

Write to the Help Desk

NCBI | NLM | NIH

Department of Health & Human Services

Privacy Statement | Freedom of Information Act | Disclaimer

Oct 13 2004 06:44:09







MIMO PMC Journals Books Nucleotide Structure Entrez PubMed Protein Genome Search PubMed for Hungs AND Mignot E Go Clear Details Preview/Index Clipboard Limits History Show: |500 🔻 Text Display Summary Sort About Entrez Items 1 - 6 of 6 One pa 1: Ripley B, Overeem S, Fujiki N, Nevsimalova S, Uchino M, Yesavage J. Related Articles, Li **Text Version** Di Monte D, Dohi K, Melberg A, Lammers GJ, Nishida Y, Roelandse FW, Hungs M, Mignot E, Nishino S Entrez PubMed Overview CSF hypocretin/orexin levels in narcolepsy and other neurological conditions. Help | FAQ Neurology. 2001 Dec 26;57(12):2253-8. Tutorial PMID: 11756606 [PubMed - indexed for MEDLINE] New/Noteworthy E-Utilities 2: Hungs M, Lin L, Okun M, Mignot E. Related Articles, Li Polymorphisms in the vicinity of the hypocretin/orexin are not associated with **PubMed Services** Journals Database human narcolepsy. MeSH Database Neurology. 2001 Nov 27;57(10):1893-5. Single Citation Matcher PMID: 11723284 [PubMed - indexed for MEDLINE] Batch Citation Matcher Clinical Queries Related Articles, Li 3: Lin L, Hungs M, Mignot E. LinkOut Cubby Narcolepsy and the HLA region. J Neuroimmunol. 2001 Jul 2;117(1-2):9-20. Review. Related Resources PMID: 11431000 [PubMed - indexed for MEDLINE] Order Documents **NLM Catalog 4.** Hungs M, Mignot E. Related Articles, Li NLM Gateway Hypocretin/orexin, sleep and narcolepsy. TOXNET Consumer Health Bioessays. 2001 May;23(5):397-408. Review. Clinical Alerts PMID: 11340621 [PubMed - indexed for MEDLINE] ClinicalTrials.gov PubMed Central 5: Hungs M, Fan J, Lin L, Lin X, Maki RA, Mignot E. Related Articles, Li Identification and functional analysis of mutations in the hypocretin (orexin) genes of narcoleptic canines. Genome Res. 2001 Apr;11(4):531-9. PMID: 11282968 [PubMed - indexed for MEDLINE] 6: Peyron C, Faraco J, Rogers W, Ripley B, Overcem S, Chamay Y. Related Articles, Li Nevsimalova S, Aldrich M, Reynolds D, Albin R, Li R, Hungs M. Pedrazzoli M, Padigaru M, Kucherlapati M, Fan J, Maki R, Laremers GJ, Bouras C. Kucherlapati R, Nishino S, Mignot E. A mutation in a case of early onset narcolepsy and a generalized absence of hypocretin peptides in human narcoleptic brains. Nat Med. 2000 Sep;6(9):991-7. PMID: 10973318 [PubMed - indexed for MEDLINE] Show: |500 ★ |Sort Display Send to

> Write to the Help Desk NCBI | NLM | NIH Department of Health & Human Services Privacy Statement | Freedom of Information Act | Disclaimer

> > Oct 13 2004 06:44:09

Summary







Entrez	PubMed	Nucleotide	Protein	Genome	Structure	OMIM	PMC	Journals	Books
Search F	PubMed	for					Go	Clear	
		Limits	Previe	w/Index	History	Clip	board	Detai	ls
About Entre	ez	Display Abst	tract		Show: 20	Sort		Send to Tex	

Text Version

E-Utilities

Entrez PubMed Overview Help | FAQ Tutorial New/Noteworthy

**PubMed Services** Journals Database MeSH Database Single Citation Matcher Batch Citation Matcher Clinical Queries LinkOut Cubby

Related Resources Order Documents **NLM Catalog NLM Gateway** TOXNET Consumer Health Clinical Alerts ClinicalTrials.gov PubMed Central

**1:** Bioessays. 2001 May;23(5):397-408.

Related Articles, I



Hypocretin/orexin, sleep and narcolepsy.

Hungs M, Mignot E.

Stanford Center for Narcolepsy, Department of Psychiatry Behavioral Science Stanford University Medical Center, Palo Alto, Ca 94305-5485, USA.

The discovery that hypocretins are involved in narcolepsy, a disorder associate with excessive daytime sleepiness, cataplexy and unusually rapid transitions to rapid-eye-movement sleep, opens a new field of investigation in the area of sle control physiology. Hypocretin-1 and -2 (also called orexin-A and -B) are new discovered neuropeptides processed from a common precursor, preprohypocre Hypocretin-containing cells are located exclusively in the lateral hypothalamus with widespread projections to the entire neuroaxis. Two known receptors, Hc and Hcrtr2, have been reported. The functional significance of the hypocretin system is rapidly emerging in both animals and humans. Hypocretin abnormalities cause narcolepsy in dogs, human and mice. The role of the hypocretin system in normal sleep regulation is more uncertain. We believe hypocretin cells drive cholinergic and monoaminergic activity across the sleep cycle. Input from the suprachiasmatic nucleus to hypocretin-containing neuron may explain the occurrence of clock-dependent alertness. Other functions are suggested by pharmacological and neurochemical experiments. These include regulation of food intake, neuroendocrine function, autonomic nervous system activity and energy balance. Copyright 2001 John Wiley & Sons, Inc.

Publication Types:

- Review
- Review, Academic

PMID: 11340621 [PubMed - indexed for MEDLINE]

Display Abstract -	Show:	20	Sort <b>▼</b>	Send to Text

Write to the Help Desk NCBI | NLM | NIH Department of Health & Human Services Privacy Statement | Freedom of Information Act | Disclaimer

Oct 13/2004/06:44:09

cb fcg c

b







PubMed Entrez Nucleotide Protein Genome Structure OMIM PMC Journals Books Search PubMed for Peyron AND Faraco AND 2000 Go Clear Limits Preview/Index History Clipboard Details Display Summary Show: 20 Sort Send to Text About Entrez 1: Peyron C. Faraco J. Rogers W. Ripley B. Overcom S. Chamay Y. Related Articles, Li Nevsimalova S, Aldrich M, Reynolds D, Albin R, Li R, Hungs M, **Text Version** Pedrazzoli M, Padigaru M, Kucherlapati M, Fan J, Maki R, Laromers GJ, Bouras C. Kucherlapati R. Nishino S. Mignot E. Entrez PubMed Overview A mutation in a case of early onset narcolepsy and a generalized absence of Help | FAQ hypocretin peptides in human narcoleptic brains. Tutoria: Nat Med. 2000 Sep;6(9):991-7. New/Noteworthy PMID: 10973318 [PubMed - indexed for MEDLINE]

100/0 GD:2

Related Resources Order Documents **NLM Catalog NLM Gateway** TOXNET Consumer Health Clinical Alerts ClinicalTrials.gov

PubMed Central

E-Utilities

PubMed Services Journals Database MeSH Database Single Citation Matcher **Batch Citation Matcher** Clinical Queries LinkOut Cubby

> Write to the Help Desk NCBI | NLM | NIH Department of Health & Human Services Privacy Statement | Freedom of Information Act | Disclaimer

> > Oct 13 2004 06:44:09

fcg







Entrez	PubMed	Nucleotide	Protein	Genome	Structure	MIMO	PMC	Journals	Books
Search	PubMed	for					Go	Clear	
		Limits		w/Index	History	Clip	board	Detai	ls
About Ent	rez	<b>Display</b> Abst	ract	***	f 100	Sort	3000	Send to Te	xt

Text Version

Entrez PubMed Overview Help | FAQ Tutorial New/Noteworthy E-Utilities

**PubMed Services** Journals Database MeSH Database Single Citation Matcher **Batch Citation Matcher** Clinical Queries LinkOut Cubby

Related Resources Order Documents NLM Catalog **NLM Gateway** TOXNET Consumer Health Clinical Alerts ClinicalTrials.gov PubMed Central

1: Nat Med. 2000 Sep;6(9):991-7.

medicine

Related Articles, L

A mutation in a case of early onset narcolepsy and a generalized absence of hypocretin peptides in human narcoleptic brains.

Peyron C, Faraco J, Rogers W, Ripley B, Overeem S, Charnay Y, Nevsimalova S, Aldrich M, Reynolds D, Albin R, Li R, Hungs M, Pedrazz M, Padigaru M, Kucherlapati M, Fan J, Maki R, Lammers GJ, Bouras C. Kucherlapati R, Nishino S, Mignot E.

Center for Narcolepsy, Stanford University Medical School 1201 Welch Road Stanford, California 94305-5485, USA.

We explored the role of hypocretins in human narcolepsy through histopatholc of six narcolepsy brains and mutation screening of Hcrt, Hcrtr1 and Hcrtr2 in 7 patients of various human leukocyte antigen and family history status. One Hc mutation, impairing peptide trafficking and processing, was found in a single c with early onset narcolepsy. In situ hybridization of the perifornical area and peptide radioimmunoassays indicated global loss of hypocretins, without glios or signs of inflammation in all human cases examined. Although hypocretin lo do not contribute significantly to genetic predisposition, most cases of human narcolepsy are associated with a deficient hypocretin system.

**Publication Types:** 

Case Reports

PMID: 10973318 [PubMed - indexed for MEDLINE]

Display Abstract	Show: 20 💌	Sort <b>→</b>	Send to Text

Write to the Help Desk NCBI | NLM | NIH Department of Health & Human Services Privacy Statement | Freedom of Information Act | Disclaimer

Oct 13/2004/06:44:09







PubMed OMIM PMC Entrez Nucleotide Protein Genome Structure Journals Books Search PubMed Clear for Olafsdottir AND Rye Go Limits Preview/Index History . Clipboard Details Display Summary Show: 20 Sort Send to Text About Entrez 1: Olafsdottir BR, Rye DB, Scammell TE, Matheson JK, Stefansson K, Related Articles, Li Gulcher JR. **Text Version** Polymorphisms in hypocretin/orexin pathway genes and narcolepsy. Entrez PubMed Neurology. 2001 Nov 27;57(10):1896-9. Overview PMID: 11723285 [PubMed - indexed for MEDLINE] Help | FAQ

PubMed Services
Journals Database
MeSH Database
Single Citation Matcher
Batch Citation Matcher
Clinical Queries
LinkOut
Cubby

Tutorial

New/Noteworthy E-Utilities

Related Resources
Order Documents
NLM Catalog
NLM Gateway
TOXNET
Consumer Health
Clinical Alerts
ClinicalTrials.gov
PubMed Central

1001.50.2

Write to the Help Desk

NCBI | NLM | NIH

Department of Health & Human Services

Privacy Statement | Freedom of Information Act | Disclaimer

Oct 13 2004 06:44:09

fcg







Entrez	PubMed	Nucleotide	Protein	Genome	Structure	OMIM	PMC	Journals	Books
Search F	PubMed	for					Go	Clear	
		Limits	Previe	w/Index	History	Clip	board	Detai	ls
About Entre	9Z	Display Abstra	act			Sort	* 8	Send to Te	xt
Text Versio	គ	1. Neurology	, 2001 N	Joy 27:57(1)	0)·1896-9			Related Art	ticles !

Entrez PubMed Overview Help | FAQ Tutorial New/Noteworthy E-Utilities

PubMed Services
Journals Database
MeSH Database
Single Citation Matcher
Batch Citation Matcher
Clinical Gueries
LinkOut
Cubby

Related Resources
Order Documents
NLM Catalog
NLM Gateway
TOXNET
Consumer Health
Clinical Alerts
ClinicalTrials.gov
PubMed Central

h

# Polymorphisms in hypocretin/orexin pathway genes and narcolep

Olafsdottir BR, Rye DB, Scammell TE, Matheson JK, Stefansson K, Gulc. JR.

deCODE genetics Inc, Reykjavik, Iceland.

The neuroexcitatory peptide hypocretin and its receptors are central to the pathophysiology of both human and animal models of the disease. In this study American and Icelandic patients with narcolepsy, the authors found no signific association between narcolepsy and single-nucleotide polymorphisms in the genes for hypocretin or its two known receptors, hypocretin receptor-1 and hypocretin receptor-2.

PMID: 11723285 [PubMed - indexed for MEDLINE]

- 0.00000000000000000000000000000000000	20000		*****	***************************************	*************	********	-0000000000000000000000000000000000000	****
	· · · · •		100	10000	10 1		***************************************	
**************************************		C1	17/11		ISOM	-	NAME OF TAXABLE PARTY.	ΙΙΔVΤ
Dioping Abstract	<b>₩</b>	Show.	120	- ::: <b>:</b>	10011	0.00		IIOAL
		DIIOW.	1		1		***************************************	
								• - •

Write to the Help Desk

NCBI | NLM | NIH

Department of Health & Human Services

Privacy Statement | Freedom of Information Act | Disclaimer

Oct 13 2004 06:44:09







Nucleotide OMIM PMC Journals Books Protein Structure PubMed Genome Search PubMed ∭ for hypocretin AND receptor Go Clear History Limits Preview/Index Clipboard Details Show: 500 Sort Send to Text Display Summary About Entrez Items 1 - 118 of 118 One pa 1: Rainero I, Gallone S, Valfre W, Ferrero M, Angilella G, Rivoiro C, Text Version Related Articles, Li Rubino E. De Martino P. Savi L. Ferrone M. Pinessi L. Entrez PubMed A polymorphism of the hypocretin receptor 2 gene is associated with cluster Overview headache. Help | FAQ Neurology. 2004 Oct 12;63(7):1286-8. Tutoria! PMID: 15477554 [PubMed - in process] New/Noteworthy E-Utilities 2: Fu LY, Acuna-Goycolea C, van den Pol AN. Related Articles, Li **PubMed Services** Neuropeptide Y inhibits hypocretin/orexin neurons by multiple presynaptic an Journals Database postsynaptic mechanisms: tonic depression of the hypothalamic arousal syster MeSH Database J Neurosci. 2004 Oct 6;24(40):8741-51. Single Citation Matcher PMID: 15470140 [PubMed - in process] Batch Citation Matcher **Clinical Queries** 1 3. Desarnaud F, Murillo-Rodriguez E, Lin L, Xu M, Gerashchenko D, Related Articles, Li LinkOut Shiromani SN, Nishino S, Mignot E, Shiromani PJ Cubby The diurnal rhythm of hypocretin in young and old F344 rats. Related Resources Sleep. 2004 Aug 1;27(5):851-6. Order Documents PMID: 15453542 [PubMed - in process] **NLM Catalog NLM Gateway** 4: Acuna-Goycolea C, van den Pol A. Related Articles, Li TOXNET Glucagon-like peptide 1 excites hypocretin/orexin neurons by direct and indire Consumer Health Clinical Alerts mechanisms: implications for viscera-mediated arousal. ClinicalTrials.gov J Neurosci. 2004 Sep 15;24(37):8141-52. PubMed Central PMID: 15371515 [PubMed - in process] 5: Salin-Pascual RJ. Related Articles, Li [Hypocretins and adenosine in the regulation of sleep] Rev Neurol. 2004 Aug 16-31;39(4):354-8. Spanish. PMID: 15340896 [PubMed - in process] 6: Muraki Y, Yamanaka A, Tsujino N, Kilduff TS, Goto K, Sakurai T. Related Articles, Li Serotonergic regulation of the orexin/hypocretin neurons through the 5-HT1A receptor. J Neurosci. 2004 Aug 11;24(32):7159-66. PMID: 15306649 [PubMed - in process] 7: Mignot E. Related Articles, Li Sleep, sleep disorders and hypocretin (orexin). Sleep Med. 2004 Jun; 5 Suppl 1:S2-8. PMID: 15301991 [PubMed - in process] 8: Thompson MD, Comings DE, Abu-Ghazalah R, Jeresch Y, Lin L, Wade Related Articles, Li J. Sakurai T. Tokita S. Yoshida T. Tanaka H. Yanagisawa M. Burnham WM, Moldofsky H. Variants of the orexin2/hcrt2 receptor gene identified in patients with excessive daytime sleepiness and patients with Tourette's syndrome comorbidity. Am J Med Genet. 2004 Aug 15;129B(1):69-75.

h

PMID: 15274044 [PubMed - in process]

		_					
□9:	Boehmer LN, Wu MF, John J, Siegel JM	Related Articles, Li					
( i	Treatment with immunosuppressive and anti-inflammatory agof canine genetic narcolepsy and reduces symptom severity. Exp Neurol. 2004 Aug; 188(2):292-9. PMID: 15246829 [PubMed - indexed for MEDLINE]	gents delays onse					
		mataka di Autobas di					
10: 	Okura M. Fujiki N, Kita I, Honda K, Yoshida Y, Mignot E, Nishino S.						
	The roles of midbrain and diencephalic dopamine cell group of cataplexy in narcoleptic Dobermans.  Neurobiol Dis. 2004 Jun;16(1):274-82.  PMID: 15207284 [PubMed - indexed for MEDLINE]	s in the regulation					
<b>-</b> 11:	Wayner MJ, Armstrong DL, Phelix CF, Oomura Y.	Related Articles, Li					
	— VIVO.						
	Peptides. 2004 Jun;25(6):991-6. PMID: 15203246 [PubMed - in process]						
□ 12:	Yamuy J, Fung SJ, Xi M, Chase MH.	Related Articles, Li					
	Hypocretinergic control of spinal cord motoneurons. J Neurosci. 2004 Jun 9;24(23):5336-45. PMID: 15190106 [PubMed - indexed for MEDLINE]						
□ 13:	Bartsch T, Levy MJ, Knight YE, Goadsby PJ.	Related Articles, Li					
	Differential modulation of nociceptive dural input to [hypoc B receptor activation in the posterior hypothalamic area. Pain. 2004 Jun;109(3):367-78. PMID: 15157698 [PubMed - indexed for MEDLINE]	retin] orexin A a					
□ 14:	Blanco-Centurion C, Gerashchenko D, Salin-Pascual RJ, Shiromani PJ.	Related Articles, Li					
	Effects of hypocretin2-saporin and antidopamine-beta-hydroxylase-saporin neurotoxic lesions of the dorsolateral pons on sleep and muscle tone. Eur J Neurosci. 2004 May;19(10):2741-52. PMID: 15147308 [PubMed - indexed for MEDLINE]						
□15:	Fetissov SO, Huang P, Zhang Q, Mimura J, Fujii-Kuriyama Y, Rannug A, Hokfelt T, Ceccatelli S.	Related Articles, Li					
	Expression of hypothalamic neuropeptides after acute TCDI distribution of Ah receptor repressor. Regul Pept. 2004 Jun 15;119(1-2):113-24. PMID: 15093705 [PubMed - in process]	O treatment and					
□ 16:	Wieczorek S. Dahmen N, Kasten M, Epplen JT, Gencik M.	Related Articles, Li					
	A rare form of narcolepsy (HLA-DR2-) shows possible asso (functionally relevant) alpha-interferon gene polymorphisms Psychiatr Genet. 2004 Mar;14(1):47-51. PMID: 15091316 [PubMed - in process]						
□ 17:	Khatami R, Maret S, Werth E, Retey J, Schmid D, Maly F, Tafti M, Bassetti CL	Related Articles, Li					
	Monozygotic twins concordant for narcolepsy-cataplexy wit detectable abnormality in the hypocretin (orexin) pathway. Lancet. 2004 Apr 10;363(9416):1199-200. PMID: 15081654 [PubMed - indexed for MEDLINE]	hout any					
□18:	Wu M, Zaborszky L, Hajszan T, van den Pol AN, Alreja M.	Related Articles, Li					
	Hypocretin/orexin innervation and excitation of identified se cholinergic neurons.	eptohippocampal					

J Neurosci. 2004 Apr 7;24(14):3527-36. PMID: 15071100 [PubMed - indexed for MEDLINE]

Orexin peptides prevent cataplexy and improve wakefulness in an orexin neuron-ablated model of narcolepsy in mice.

Proc Natl Acad Sci U S A. 2004 Mar 30;101(13):4649-54. Epub 2004 Mar 16.

PMID: 15070772 [PubMed - indexed for MEDLINE]

20: Muroya S, Funahashi H, Yamanaka A, Kohno D, Uramura K, Nambu T, Shibahara M, Kuramochi M, Takigawa M, Yanagisawa M, Sakurai T, Shioda S, Yada T

Orexins (hypocretins) directly interact with neuropeptide Y, POMC and glucose-responsive neurons to regulate Ca 2+ signaling in a reciprocal mann-to leptin: orexigenic neuronal pathways in the mediobasal hypothalamus. Eur J Neurosci. 2004 Mar;19(6):1524-34. PMID: 15066149 [PubMed - indexed for MEDLINE]

21: Steidl U, Bork S, Schaub S, Selbach O, Seres J, Aivado M, Schroeder T, Rohr UP, Fenk R, Kliszewski S, Maercker C, Neubert P, Bornstein SR, Haas HL, Kobbe G, Tenen DG, Haas R, Kronenwett R.

Primary human CD34+ hematopoietic stem and progenitor cells express functionally active receptors of neuromediators.
Blood. 2004 Jul 1;104(1):81-8. Epub 2004 Mar 11.

PMID: 15016651 [PubMed - indexed for MEDLINE]

1 22: Kohlmeier KA, Inoue T, Leonard CS. Related Articles, Li

Hypocretin/orexin peptide signaling in the ascending arousal system: elevation of intracellular calcium in the mouse dorsal raphe and laterodorsal tegmentur J Neurophysiol. 2004 Jul;92(1):221-35. Epub 2004 Mar 03. PMID: 14999052 [PubMed - indexed for MEDLINE]

23: Gerashchenko D, Murillo-Rodriguez E, Lin L, Xu M, Hallett L, Nishino S, Mignot E, Shiromani PJ.

Related Articles, Li

Relationship between CSF hypocretin levels and hypocretin neuronal loss. Exp Neurol. 2003 Dec;184(2):1010-6.

PMID: 14769395 [PubMed - indexed for MEDLINE]

1. 24: Katsuki H. Akaike A.

Related Articles, Li

Excitotoxic degeneration of hypothalamic orexin neurons in slice culture.
Neurobiol Dis. 2004 Feb;15(1):61-9.
PMID: 14751771 [PubMed - indexed for MEDLINE]

25: Fujiki N, Yoshida Y, Ripley B, Mignot E, Nishino S.

Related Articles, Li

Effects of IV and ICV hypocretin-1 (orexin A) in hypocretin receptor-2 gene mutated narcoleptic dogs and IV hypocretin-1 replacement therapy in a hypocretin-ligand-deficient narcoleptic dog.

Sleep. 2003 Dec 15;26(8):953-9. PMID: 14746374 [PubMed - indexed for MEDLINE]

PMID: 14/403/4 [PubMed - Indexed for MEDLINE]

Hypocretin administration as a treatment for human narcolepsy.

Sleep. 2003 Dec 15;26(8):932-3. No abstract available. PMID: 14746368 [PubMed - indexed for MEDLINE]

27: Terao A, Steininger TL, Morairty SR, Kilduff TS.

Related Articles, Li

Related Articles, Li

Age-related changes in histamine receptor mRNA levels in the mouse brain. Neurosci Lett. 2004 Jan 23;355(1-2):81-4.

PMID: 14729240 [PubMed - indexed for MEDLINE]

h

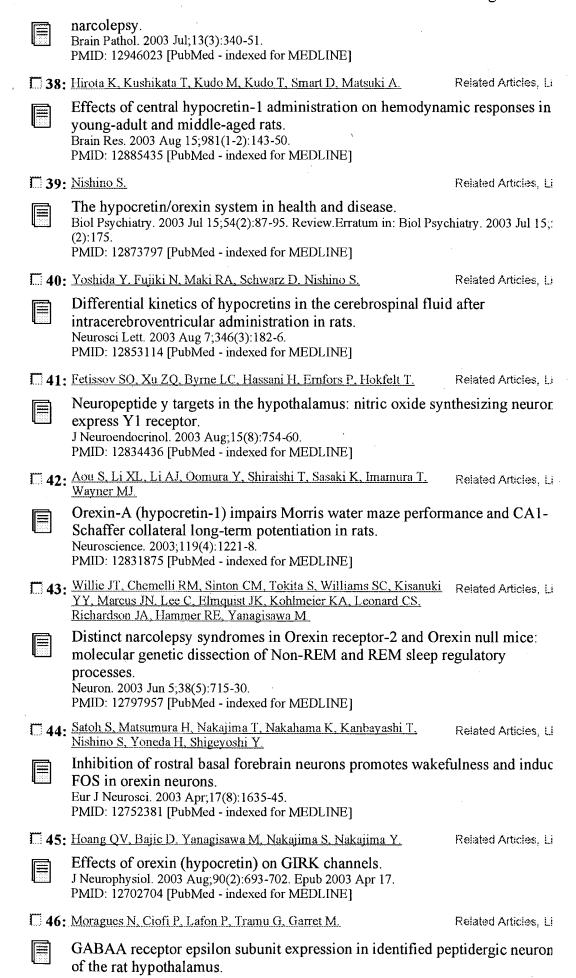
26: Siegel JM.

□ 28	: Baldo BA, Gual-Bonilla L, Sijapati K, Daniel RA, Landry CF, Kelley AE.	Related Articles, Li
	Activation of a subpopulation of orexin/hypocretin-containing neurons by GABAA receptor-mediated inhibition of the nuclearly but not by exposure to a novel environment. Eur J Neurosci. 2004 Jan;19(2):376-86. PMID: 14725632 [PubMed - indexed for MEDLINE]	
□ 29	: Kiwaki K, Kotz CM, Wang C, Lanningham-Foster L, Levine JA	Related Articles, Li
	Orexin A (hypocretin 1) injected into hypothalamic paraver and spontaneous physical activity in rats.  Am J Physiol Endocrinol Metab. 2004 Apr;286(4):E551-9. Epub 2003 J PMID: 14656716 [PubMed - indexed for MEDLINE]	
□30	: Bernard R, Lydic R, Baghdoyan HA.	Related Articles, Li
	Hypocretin-1 causes G protein activation and increases ACl pons. Eur J Neurosci. 2003 Oct;18(7):1775-85. PMID: 14622212 [PubMed - indexed for MEDLINE]	n release in rat
□31	: Dauvilliers Y, Billiard M, Montplaisir J.	Related Articles, Li
	Clinical aspects and pathophysiology of narcolepsy. Clin Neurophysiol. 2003 Nov;114(11):2000-17. Review. PMID: 14580598 [PubMed - indexed for MEDLINE]	
□ 32	: Li MD, Kane JK.	Related Articles, Li
	Effect of nicotine on the expression of leptin and forebrain I the rat. Brain Res. 2003 Nov 21;991(1-2):222-31. PMID: 14575895 [PubMed - indexed for MEDLINE]	eptin receptors ir
□ 33	: Ciriello J, Li Z, de Oliveira CV.	Related Articles, Li
	Cardioacceleratory responses to hypocretin-1 injections into ventromedial medulla.  Brain Res. 2003 Nov 21;991(1-2):84-95.  PMID: 14575880 [PubMed - indexed for MEDLINE]	rostral
□ 34	: Cheng JK, Chou RC, Hwang LL; Chiou LC.	Related Articles, Li
	Antiallodynic effects of intrathecal orexins in a rat model of J Pharmacol Exp Ther. 2003 Dec;307(3):1065-71. Epub 2003 Oct 09. PMID: 14551290 [PubMed - indexed for MEDLINE]	postoperative pa
□ 35	Lambe EK, Aghajanian GK	Related Articles, Li
	Hypocretin (orexin) induces calcium transients in single spiridentified thalamocortical boutons in prefrontal slice.  Neuron. 2003 Sep 25;40(1):139-50.  PMID: 14527439 [PubMed - indexed for MEDLINE]	nes postsynaptic
□ 36	: Espana RA, Valentino RJ, Berridge CW.	Related Articles, Li
	Fos immunoreactivity in hypocretin-synthesizing and hypocretin-synthesizing and hypocretin-synthesizing and hypocretin-and nocturnal spontant and hypocretin-1 administration.  Neuroscience. 2003;121(1):201-17.  PMID: 12946712 [PubMed - indexed for MEDLINE]	
<b>1</b> 37	Thannickal TC, Siegel JM, Nienhuis R, Moore RY.	Related Articles, Li

Pattern of hypocretin (orexin) soma and axon loss, and gliosis, in human

hg e e e fcg

cb

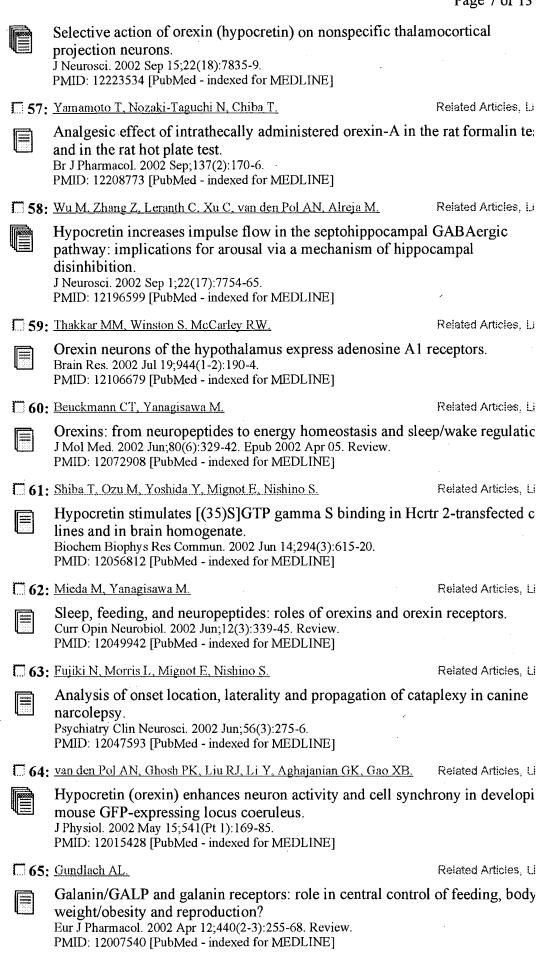


h

Brain Res. 2003 Mar 28;967(1-2):285-9. PMID: 12650990 [PubMed - indexed for MEDLINE] 47: Ciriello J. de Oliveira CV. Related Articles, Li Cardiac effects of hypocretin-1 in nucleus ambiguus. Am J Physiol Regul Integr Comp Physiol. 2003 Jun;284(6):R1611-20. Epub 2003 Feb 06. PMID: 12573979 [PubMed - indexed for MEDLINE] 1 48: Lin L, Wisor J, Shiba T, Taheri S, Yanai K, Wurts S, Lin X, Vitaterna Related Articles, Li M. Takahashi J. Lovenberg TW, Koehl M, Uhl G, Nishino S, Mignot E. Measurement of hypocretin/orexin content in the mouse brain using an enzyr immunoassay: the effect of circadian time, age and genetic background. Peptides. 2002 Dec;23(12):2203-11. PMID: 12535700 [PubMed - indexed for MEDLINE] 49: de Oliveira CV, Rosas-Arellano MP, Solano-Flores LP, Ciriello J. Related Articles, Li Cardiovascular effects of hypocretin-1 in nucleus of the solitary tract. Am J Physiol Heart Circ Physiol. 2003 Apr;284(4):H1369-77. Epub 2002 Dec 12. PMID: 12531738 [PubMed - indexed for MEDLINE] 50: Harris DM, Go VL, Reeve JR Jr, Wu SV. Related Articles, Li Stimulation of amylase release by Orexin is mediated by Orexin 2 receptor in AR42J cells. Pancreas. 2002 Nov;25(4):405-10. PMID: 12409837 [PubMed - indexed for MEDLINE] 51: Black JL 3rd, Krahn LE, Pankratz VS, Silber M. Related Articles, Li Search for neuron-specific and nonneuron-specific antibodies in narcoleptic patients with and without HLA DQB1*0602. Sleep. 2002 Nov 1;25(7):719-23. PMID: 12405606 [PubMed - indexed for MEDLINE] 52: Terao A, Apte-Deshpande A, Morairty S, Freund YR, Kilduff TS. Related Articles, Li Age-related decline in hypocretin (orexin) receptor 2 messenger RNA levels the mouse brain. Neurosci Lett. 2002 Nov 8;332(3):190-4. PMID: 12399012 [PubMed - indexed for MEDLINE] 53: de Lecea L, Sutcliffe JG, Fabre V. Related Articles, Li Hypocretins/orexins as integrators of physiological information: lessons from mutant animals. Neuropeptides. 2002 Apr-Jun;36(2-3):85-95. Review. PMID: 12359500 [PubMed - indexed for MEDLINE] 54: Kubota H, Kanbayashi T, Tanabe Y, Takanashi J, Kohno Y. Related Articles, Li A case of acute disseminated encephalomyelitis presenting hypersomnia with decreased hypocretin level in cerebrospinal fluid. J Child Neurol. 2002 Jul; 17(7):537-9. PMID: 12269735 [PubMed - indexed for MEDLINE] 55: Smith PM, Connolly BC, Ferguson AV. Related Articles, Li Microinjection of orexin into the rat nucleus tractus solitarius causes increase in blood pressure. Brain Res. 2002 Sep 20;950(1-2):261-7. PMID: 12231252 [PubMed - indexed for MEDLINE] 56: Bayer L, Eggermann E, Saint-Mleux B, Machard D, Jones BE, Related Articles, Li

Muhlethaler M, Serafin M.

Related Articles, Lin



66: Sutcliffe JG, de Lecea L.

	The hypocretins: setting the arousal threshold. Nat Rev Neurosci. 2002 May;3(5):339-49. Review. PMID: 11988773 [PubMed - indexed for MEDLINE]	
□ 67:	Ebrahim IO, Howard RS, Kopelman MD, Sharief MK, Williams AJ.	Related Articles, Li
1000 1000 1000 1000 1000 1000	The hypocretin/orexin system. JR Soc Med. 2002 May;95(5):227-30. Review. No abstract available. PMID: 11983761 [PubMed - indexed for MEDLINE]	
□ 68:	Bernard R, Lydic R, Baghdoyan HA.	Related Articles, Li
	Hypocretin-1 activates G proteins in arousal-related brainste Neuroreport. 2002 Mar 25;13(4):447-50. PMID: 11930158 [PubMed - indexed for MEDLINE]	m nuclei of rat.
<b>69:</b>	Carlander B, Dauvilliers Y, Billiard M.	Related Articles, Li
	[Immunological aspects of narcolepsy] Rev Neurol (Paris). 2001 Nov;157(11 Pt 2):S97-100. French. PMID: 11924050 [PubMed - indexed for MEDLINE]	
□ 70:	Burlet S, Tyler CJ, Leonard CS.	Related Articles, Li
	Direct and indirect excitation of laterodorsal tegmental neuro Hypocretin/Orexin peptides: implications for wakefulness and J Neurosci. 2002 Apr 1;22(7):2862-72. PMID: 11923451 [PubMed - indexed for MEDLINE]	•
□ 71:	Martin G, Fabre V, Siggins GR, de Lecea L.	Related Articles, Li
	Interaction of the hypocretins with neurotransmitters in the regul Pept. 2002 Mar 15;104(1-3):111-7. PMID: 11830285 [PubMed - indexed for MEDLINE]	nucleus accumbe
□ 72:	Grudt TJ, van den Pol AN, Perl ER	Related Articles, Li
	Hypocretin-2 (orexin-B) modulation of superficial dorsal ho J Physiol. 2002 Jan 15;538(Pt 2):517-25. PMID: 11790816 [PubMed - indexed for MEDLINE]	rn activity in rat.
□ 73:	Eggermann E, Serafin M, Bayer L, Machard D, Saint-Mleux B, Jones BE, Muhlethaler M	Related Articles, Li
	Orexins/hypocretins excite basal forebrain cholinergic neuro Neuroscience. 2001;108(2):177-81. PMID: 11734353 [PubMed - indexed for MEDLINE]	ones.
□ 74:	Olafsdottir BR, Rye DB, Scanimell TE, Matheson JK, Stefansson K, Gulcher JR	Related Articles, Li
	Polymorphisms in hypocretin/orexin pathway genes and nare Neurology. 2001 Nov 27;57(10):1896-9. PMID: 11723285 [PubMed - indexed for MEDLINE]	colepsy.
□ 75:	Eriksson KS, Sergeeva O, Brown RE, Haas HL.	Related Articles, Li
	Orexin/hypocretin excites the histaminergic neurons of the to nucleus.  J Neurosci. 2001 Dec 1;21(23):9273-9.  PMID: 11717361 [PubMed - indexed for MEDLINE]	uberomammillar
□ 76:	Antunes VR, Brailoiu GC, Kwok EH, Scruggs P, Dun NJ.	Related Articles, Li
	Orexins/hypocretins excite rat sympathetic preganglionic ne in vitro.  Am J Physiol Regul Integr Comp Physiol. 2001 Dec;281(6):R1801-7.  PMID: 11705764 [PubMed - indexed for MEDLINE]	urons in vivo and

	_
77: Nishino S, Fujiki N, Ripley B, Sakurai E, Kato M, Watanabe T, Mignot E, Yanai K	Related Articles, Li
Decreased brain histamine content in hypocretin/orexin recenarcoleptic dogs.  Neurosci Lett. 2001 Nov 9;313(3):125-8.  PMID: 11682143 [PubMed - indexed for MEDLINE]	eptor-2 mutated
78: Samson WK, Taylor MM.	Related Articles, Li
Hypocretin/orexin suppresses corticotroph responsiveness in Am J Physiol Regul Integr Comp Physiol. 2001 Oct;281(4):R1140-5. PMID: 11557621 [PubMed - indexed for MEDLINE]	n vitro.
79: Mikkelsen JD, Hauser F, deLecea L, Sutcliffe JG, Kilduff TS, Calgari C, Pevet P, Simonneaux V.	Related Articles, Li
Hypocretin (orexin) in the rat pineal gland: a central transminoradrenaline-induced release of melatonin.  Eur J Neurosci. 2001 Aug;14(3):419-25.  PMID: 11553292 [PubMed - indexed for MEDLINE]	itter with effects
80: Gerashchenko D, Kohls MD, Greco M, Waleh NS, Salin-Pascual R, Kildeff TS, Lappi DA, Shiromani PJ.	Related Articles, Li
Hypocretin-2-saporin lesions of the lateral hypothalamus prolike sleep behavior in the rat. J Neurosci. 2001 Sep 15;21(18):7273-83. PMID: 11549737 [PubMed - indexed for MEDLINE]	oduce narcoleptic
81: Gerashchenko D, Salin-Pascual R, Shiromani PJ.	Related Articles, Li
Effects of hypocretin-saporin injections into the medial sept hippocampal theta. Brain Res. 2001 Sep 14;913(1):106-15. PMID: 11532254 [PubMed - indexed for MEDLINE]	rum on sleep and
82: Ripley B, Fujiki N, Okura M, Mignot E, Nishino S.	Related Articles, Li
Hypocretin levels in sporadic and familial cases of canine no Neurobiol Dis. 2001 Jun;8(3):525-34. PMID: 11442359 [PubMed - indexed for MEDLINE]	arcolepsy.
<b>83:</b> <u>Ucta Y.</u>	Related Articles, Li
[Involvement of orexins/hypocretins in multiple physiologic J UOEH. 2001 Jun 1;23(2):147-59. Review. Japanese. PMID: 11431960 [PubMed - indexed for MEDLINE]	cal functions]
84: Thakkar MM, Ramesh V, Cape EG, Winston S, Strecker RE, McCarley RW.	Related Articles, Li
REM sleep enhancement and behavioral cataplexy following (hypocretin)-II receptor antisense perfusion in the pontine results Sleep Res Online. 1999;2(4):112-20. PMID: 11382892 [PubMed - indexed for MEDLINE]	_
85: Kilduff TS, de Lecea L.	Related Articles, Li
Mapping of the mRNAs for the hypocretin/orexin and melan hormone receptors: networks of overlapping peptide system J Comp Neurol. 2001 Jun 18;435(1):1-5. Review. No abstract available. PMID: 11370007 [PubMed - indexed for MEDLINE]	S.
86: Gao XB, van den Pol AN.	Related Articles, Li
Melanin concentrating hormone depresses synaptic activity GABA neurons from rat lateral hypothalamus. J Physiol. 2001 May 15;533(Pt 1):237-52.	of glutamate and

PMID: 11351031 [PubMed - indexed for MEDLINE] 87: Li R, Faraco JH, Lin L, Lin X, Hinton L, Rogers W, Lowe JK, Related Articles, Li Ostrander EA, Mignot E. Physical and radiation hybrid mapping of canine chromosome 12, in a region corresponding to human chromosome 6p12-q12. Genomics. 2001 May 1;73(3):299-315. PMID: 11350122 [PubMed - indexed for MEDLINE] 88: Salin-Pascual RJ. Related Articles, Li The role of the hypothalamic neuropeptides hypocretin/orexin in the sleepwake cycle. Isr Med Assoc J. 2001 Feb;3(2):144-6. Review. PMID: 11344826 [PubMed - indexed for MEDLINE] 89: Van Den Pol AN, Patrylo PR, Ghosh PK, Gao XB. Related Articles, Li Lateral hypothalamus: early developmental expression and response to hypocretin (orexin). J Comp Neurol. 2001 May 7;433(3):349-63. PMID: 11298360 [PubMed - indexed for MEDLINE] 90: Greco MA, Shiromani PJ Related Articles, Li Hypocretin receptor protein and mRNA expression in the dorsolateral pons c Brain Res Mol Brain Res. 2001 Mar 31;88(1-2):176-82. PMID: 11295245 [PubMed - indexed for MEDLINE] 91: Hungs M, Fan J, Lin L, Lin X, Maki RA, Mignot E. Related Articles, Li Identification and functional analysis of mutations in the hypocretin (orexin) genes of narcoleptic canines. Genome Res. 2001 Apr;11(4):531-9. PMID: 11282968 [PubMed - indexed for MEDLINE] 92: Wisor JP, Nishino S, Sora I, Uhl GH, Mignot E, Edgar DM. Related Articles. Li Dopaminergic role in stimulant-induced wakefulness. J Neurosci. 2001 Mar 1;21(5):1787-94. PMID: 11222668 [PubMed - indexed for MEDLINE] 93: Krahn LE, Black JL, Silber MH. Related Articles, Li Narcolepsy: new understanding of irresistible sleep. Mayo Clin Proc. 2001 Feb;76(2):185-94. Review. PMID: 11213307 [PubMed - indexed for MEDLINE] 94: Dun NJ, Le Dun S, Chen CT, Hwang LL, Kwok EH, Chang JK. Related Articles, Li Orexins: a role in medullary sympathetic outflow. Regul Pept. 2000 Dec 22;96(1-2):65-70. Review. PMID: 11102654 [PubMed - indexed for MEDLINE] 1 95: Terao A, Peyron C, Ding J, Wurts SW, Edgar DM, Heller HC, Kilduff Related Articles, Li Prepro-hypocretin (prepro-orexin) expression is unaffected by short-term sle deprivation in rats and mice. Sleep. 2000 Nov 1;23(7):867-74. PMID: 11083595 [PubMed - indexed for MEDLINE] 1 96: Thannickal TC, Moore RY, Nienhuis R, Ramanathan L, Gulyani S, Related Articles, Li Aldrich M, Cornford M. Siegel JM Reduced number of hypocretin neurons in human narcolepsy. Neuron. 2000 Sep;27(3):469-74.

PMID: 11055430 [PubMed - indexed for MEDLINE] 97: Wagner JL, Storb R, Storer B, Mignot E. Related Articles, Li DLA-DQB1 alleles and bone marrow transplantation experiments in narcoleptic dogs. Tissue Antigens. 2000 Sep;56(3):223-31. PMID: 11034558 [PubMed - indexed for MEDLINE] 138: Ida T, Nakahara K, Kuroiwa T, Fukui K, Nakazato M, Murakami T, Related Articles, Li Murakami N. Both corticotropin releasing factor and neuropeptide Y are involved in the effect of orexin (hypocretin) on the food intake in rats. Neurosci Lett. 2000 Oct 27;293(2):119-22. PMID: 11027848 [PubMed - indexed for MEDLINE] Bourgin P, Huitron-Resendiz S, Spier AD, Fabre V, Morte B, Criado Related Articles, Li JR, Sutcliffe JG, Henriksen SJ, de Lecea L Hypocretin-1 modulates rapid eye movement sleep through activation of loci coeruleus neurons. J Neurosci. 2000 Oct 15;20(20):7760-5. PMID: 11027239 [PubMed - indexed for MEDLINE] 100: Sutcliffe JG, de Lecea L. Related Articles, Li The hypocretins: excitatory neuromodulatory peptides for multiple homeostatic systems, including sleep and feeding. J Neurosci Res. 2000 Oct 15;62(2):161-8. Review. PMID: 11020209 [PubMed - indexed for MEDLINE] 101: Peyron C, Faraco J, Rogers W, Ripley B, Overeen S, Chamay Y, Related Articles, Li Nevsimalova S. Aldrich M. Revnolds D. Albin R. Li R. Hungs M. Pedrazzoli M. Padigaru M. Kucherlapati M. Fan J. Maki R. Lammers GJ, Bouras C, Kucherlapati R, Nishino S, Mignot E. A mutation in a case of early onset narcolepsy and a generalized absence of hypocretin peptides in human narcoleptic brains. Nat Med. 2000 Sep;6(9):991-7. PMID: 10973318 [PubMed - indexed for MEDLINE] 102: Kilduff TS, Peyron C. Related Articles, Li The hypocretin/orexin ligand-receptor system: implications for sleep and sleep disorders. Trends Neurosci. 2000 Aug;23(8):359-65. Review. PMID: 10906799 [PubMed - indexed for MEDLINE] 103: Yamamoto Y, Ueta Y, Hara Y, Serino R, Nomura M, Shibuya I, Related Articles. Li Shirahata A, Yamashita H. Postnatal development of orexin/hypocretin in rats. Brain Res Mol Brain Res. 2000 May 31;78(1-2):108-19. PMID: 10891590 [PubMed - indexed for MEDLINE] 104: Lu XY, Bagnol D. Burke S, Akil H, Watson SJ. Related Articles, Li Differential distribution and regulation of OX1 and OX2 or exin/hypocretin receptor messenger RNA in the brain upon fasting. Horm Behav. 2000 Jun;37(4):335-44. PMID: 10860677 [PubMed - indexed for MEDLINE] 105: Nakayama J, Miura M, Honda M, Miki T, Honda Y, Arinami T. Related Articles, Li Linkage of human narcolepsy with HLA association to chromosome 4p13g21.

h

Genomics. 2000 Apr 1;65(1):84-6.

PMID: 10777671 [PubMed - indexed for MEDLINE] 106: Smart D, Jerman JC, Brough SJ, Neville WA, Jewitt F, Porter RA. Related Articles, Li The hypocretins are weak agonists at recombinant human orexin-1 and orexin-2 receptors. Br J Pharmacol. 2000 Apr;129(7):1289-91. PMID: 10742282 [PubMed - indexed for MEDLINE] 107: Date Y, Mondal MS, Matsukura S, Ueta Y, Yamashita H, Kaiya H, Related Articles, Li Kangawa K, Nakazato M. Distribution of orexin/hypocretin in the rat median eminence and pituitary. Brain Res Mol Brain Res. 2000 Mar 10;76(1):1-6. PMID: 10719209 [PubMed - indexed for MEDLINE] 108: Meister B. Related Articles, Li Control of food intake via leptin receptors in the hypothalamus. Vitam Horm. 2000;59:265-304. Review. PMID: 10714243 [PubMed - indexed for MEDLINE] 109: Kirchgessner AL, Liu M. Related Articles. Li Orexin synthesis and response in the gut. Neuron. 1999 Dec;24(4):941-51. PMID: 10624957 [PubMed - indexed for MEDLINE] 110: Nishino S, Ripley B, Overeem S, Lammers GJ, Mignot E. Related Articles, Li Hypocretin (orexin) deficiency in human narcolepsy. Lancet. 2000 Jan 1;355(9197):39-40. PMID: 10615891 [PubMed - indexed for MEDLINE] 111: Lee JH, Bang E, Chae KJ, Kim JY, Lee DW. Lee W. Related Articles, Li Solution structure of a new hypothalamic neuropeptide, human hypocretin-2/orexin-B. Eur J Biochem. 1999 Dec;266(3):831-9. PMID: 10583376 [PubMed - indexed for MEDLINE] 112: Reilly CE. Related Articles, Li I. Mutation in the hypocretin (orexin) receptor 2 gene causes canine J Neurol. 1999 Oct;246(10):985-6. No abstract available. PMID: 10552257 [PubMed - indexed for MEDLINE] 113: Aldrich MS, Reynolds PR. Related Articles, Li Narcolepsy and the hypocretin receptor 2 gene. Neuron. 1999 Aug;23(4):625-6. No abstract available. PMID: 10482224 [PubMed - indexed for MEDLINE] 1114: Chemelli RM, Willie JT, Sinton CM, Elmquist JK, Scammell T, Lee Related Articles, Li C, Richardson JA, Williams SC, Xiong Y, Kisanuki Y, Fitch TE, Nakazato M, Hammer RE, Saper CB, Yanagisawa M. Narcolepsy in orexin knockout mice: molecular genetics of sleep regulation Cell. 1999 Aug 20;98(4):437-51. PMID: 10481909 [PubMed - indexed for MEDLINE] 115: Lin L, Faraco J, Li R, Kadotani H, Rogers W, Lin X, Qiu X, de Jong Related Articles, Li PJ, Nishino S, Mignot E. The sleep disorder canine narcolepsy is caused by a mutation in the hypocretin (orexin) receptor 2 gene. Cell. 1999 Aug 6;98(3):365-76. PMID: 10458611 [PubMed - indexed for MEDLINE]

h

116: Hakansson M, de Lecea L, Sutcliffe JG, Yanagisawa M, Meister B. Related Articles, Li Leptin receptor- and STAT3-immunoreactivities in hypocretin/orexin neurones of the lateral hypothalamus. J Neuroendocrinol. 1999 Aug;11(8):653-63. PMID: 10447804 [PubMed - indexed for MEDLINE] 117: Samson WK, Gosnell B, Chang JK, Resch ZT, Murphy TC. Related Articles, Li Cardiovascular regulatory actions of the hypocretins in brain. Brain Res. 1999 Jun 12;831(1-2):248-53. PMID: 10412003 [PubMed - indexed for MEDLINE] 118: Horvath TL, Diano S, van den Pol AN. Related Articles, Li Synaptic interaction between hypocretin (orexin) and neuropeptide Y cells i the rodent and primate hypothalamus: a novel circuit implicated in metaboli and endocrine regulations. J Neurosci. 1999 Feb 1;19(3):1072-87. PMID: 9920670 [PubMed - indexed for MEDLINE] Show: 500 Sort Display Summary Send to

Write to the Help Desk

NCBI | NLM | NIH

Department of Health & Human Services

Privacy Statement | Freedom of Information Act | Disclaimer

Oct 13 2004 06:44:09

h

```
onnecting via Winsock to STN
elcome to STN International!
                              Enter x:x
* * * * * * * * * Welcome to STN International
ILE 'HOME' ENTERED AT 15:30:47 ON 18 OCT 2004
> file BIOSCIENCE
ILE 'ADISCTI' ENTERED AT 15:31:12 ON 18 OCT 2004
OPYRIGHT (C) 2004 Adis Data Information BV
ILE 'ADISINSIGHT' ENTERED AT 15:31:12 ON 18 OCT 2004
OPYRIGHT (C) 2004 Adis Data Information BV
ILE 'ADISNEWS' ENTERED AT 15:31:12 ON 18 OCT 2004
OPYRIGHT (C) 2004 Adis Data Information BV
ILE 'AGRICOLA' ENTERED AT 15:31:12 ON 18 OCT 2004
ILE 'ANABSTR' ENTERED AT 15:31:12 ON 18 OCT 2004
OPYRIGHT (c) 2004 THE ROYAL SOCIETY OF CHEMISTRY (RSC)
ILE 'ANTE' ENTERED AT 15:31:12 ON 18 OCT 2004
OPYRIGHT (C) 2004 Cambridge Scientific Abstracts (CSA)
ILE 'AQUALINE' ENTERED AT 15:31:12 ON 18 OCT 2004
OPYRIGHT (C) 2004 Cambridge Scientific Abstracts (CSA)
ILE 'AQUASCI' ENTERED AT 15:31:12 ON 18 OCT 2004
OPYRIGHT 2004 FAO (On behalf of the ASFA Advisory Board). All rights reserved.
ILE 'BIOBUSINESS' ENTERED AT 15:31:12 ON 18 OCT 2004
opyright (c) 1998 The Thomson Corporation.
ILE 'BIOCOMMERCE' ENTERED AT 15:31:12 ON 18 OCT 2004
OPYRIGHT (C) 2004 BioCommerce Data Ltd. Richmond Surrey, United Kingdom. All rights reserved
ILE 'BIOENG' ENTERED AT 15:31:12 ON 18 OCT 2004
OPYRIGHT (C) 2004 Cambridge Scientific Abstracts (CSA)
ILE 'BIOSIS' ENTERED AT 15:31:12 ON 18 OCT 2004
opyright (c) 2004 The Thomson Corporation.
ILE 'BIOTECHABS' ACCESS NOT AUTHORIZED
ILE 'BIOTECHDS' ENTERED AT 15:31:12 ON 18 OCT 2004
OPYRIGHT (C) 2004 THE THOMSON CORPORATION
ILE 'BIOTECHNO' ENTERED AT 15:31:12 ON 18 OCT 2004
OPYRIGHT (C) 2004 Elsevier Science B.V., Amsterdam. All rights reserved.
ILE 'CABA' ENTERED AT 15:31:12 ON 18 OCT 2004
OPYRIGHT (C) 2004 CAB INTERNATIONAL (CABI)
ILE 'CANCERLIT' ENTERED AT 15:31:12 ON 18 OCT 2004
ILE 'CAPLUS' ENTERED AT 15:31:12 ON 18 OCT 2004
SE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
LEASE SEE "HELP USAGETERMS" FOR DETAILS.
OPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)
ILE 'CEABA-VTB' ENTERED AT 15:31:12 ON 18 OCT 2004
OPYRIGHT (c) 2004 DECHEMA eV
ILE 'CEN' ENTERED AT 15:31:12 ON 18 OCT 2004
OPYRIGHT (C) 2001 American Chemical Society (ACS)
ILE 'CIN' ENTERED AT 15:31:12 ON 18 OCT 2004
SE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
LEASE SEE "HELP USAGETERMS" FOR DETAILS.
OPYRIGHT (C) 2004 American Chemical Society (ACS)
ILE 'CONFSCI' ENTERED AT 15:31:12 ON 18 OCT 2004
```

OPYRIGHT (C) 2004 Cambridge Scientific Abstracts (CSA)

ILE 'CROPB' ENTERED AT 15:31:12 ON 18 OCT 2004

```
COPYRIGHT (C) 2004 THE THOMSON CORPORATION
```

FILE 'CROPU' ENTERED AT 15:31:12 ON 18 OCT 2004 COPYRIGHT (C) 2004 THE THOMSON CORPORATION

FILE 'DDFB' ENTERED AT 15:31:12 ON 18 OCT 2004 COPYRIGHT (C) 2004 THE THOMSON CORPORATION

FILE 'DDFU' ACCESS NOT AUTHORIZED

FILE 'DGENE' ENTERED AT 15:31:12 ON 18 OCT 2004 COPYRIGHT (C) 2004 THE THOMSON CORPORATION

FILE 'DISSABS' ENTERED AT 15:31:12 ON 18 OCT 2004
COPYRIGHT (C) 2004 ProQuest Information and Learning Company; All Rights Reserved.

FILE 'DRUGB' ENTERED AT 15:31:12 ON 18 OCT 2004 COPYRIGHT (C) 2004 THE THOMSON CORPORATION

FILE 'DRUGMONOG2' ENTERED AT 15:31:12 ON 18 OCT 2004 COPYRIGHT (C) 2004 IMSWORLD Publications Ltd

FILE 'DRUGU' ENTERED AT 15:31:12 ON 18 OCT 2004 COPYRIGHT (C) 2004 THE THOMSON CORPORATION

FILE 'EMBAL' ENTERED AT 15:31:12 ON 18 OCT 2004 COPYRIGHT (C) 2004 Elsevier Inc. All rights reserved.

FILE 'EMBASE' ENTERED AT 15:31:12 ON 18 OCT 2004 COPYRIGHT (C) 2004 Elsevier Inc. All rights reserved.

FILE 'ESBIOBASE' ENTERED AT 15:31:12 ON 18 OCT 2004 COPYRIGHT (C) 2004 Elsevier Science B.V., Amsterdam. All rights reserved.

FILE 'FEDRIP' ENTERED AT 15:31:12 ON 18 OCT 2004

FILE 'FOMAD' ENTERED AT 15:31:12 ON 18 OCT 2004 COPYRIGHT (C) 2004 Leatherhead Food Research Association

FILE 'FOREGE' ENTERED AT 15:31:12 ON 18 OCT 2004 COPYRIGHT (C) 2004 Leatherhead Food Research Association

FILE 'FROSTI' ENTERED AT 15:31:12 ON 18 OCT 2004 COPYRIGHT (C) 2004 Leatherhead Food Research Association

FILE 'FSTA' ENTERED AT 15:31:12 ON 18 OCT 2004 COPYRIGHT (C) 2004 International Food Information Service

FILE 'GENBANK' ENTERED AT 15:31:12 ON 18 OCT 2004

FILE 'HEALSAFE' ENTERED AT 15:31:12 ON 18 OCT 2004
COPYRIGHT (C) 2004 Cambridge Scientific Abstracts (CSA)

FILE 'IFIPAT' ENTERED AT 15:31:12 ON 18 OCT 2004 COPYRIGHT (C) 2004 IFI CLAIMS(R) Patent Services (IFI)

FILE 'IMSDRUGNEWS' ENTERED AT 15:31:12 ON 18 OCT 2004 COPYRIGHT (C) 2004 IMSWORLD Publications Ltd

FILE 'IMSPRODUCT' ENTERED AT 15:31:12 ON 18 OCT 2004 COPYRIGHT (C) 2004 IMSWORLD Publications Ltd

FILE 'IMSRESEARCH' ENTERED AT 15:31:12 ON 18 OCT 2004 COPYRIGHT (C) 2004 IMSWORLD Publications Ltd

FILE 'JICST-EPLUS' ENTERED AT 15:31:12 ON 18 OCT 2004 COPYRIGHT (C) 2004 Japan Science and Technology Agency (JST)

FILE 'KOSMET' ENTERED AT 15:31:12 ON 18 OCT 2004 COPYRIGHT (C) 2004 International Federation of the Societies of Cosmetics Chemists

FILE 'LIFESCI' ENTERED AT 15:31:12 ON 18 OCT 2004
COPYRIGHT (C) 2004 Cambridge Scientific Abstracts (CSA)

FILE 'MEDICONF' ENTERED AT 15:31:12 ON 18 OCT 2004 COPYRIGHT (c) 2004 FAIRBASE Datenbank GmbH, Hannover, Germany

```
FILE 'MEDLINE' ENTERED AT 15:31:12 ON 18 OCT 2004
```

FILE 'NIOSHTIC' ENTERED AT 15:31:12 ON 18 OCT 2004 COPYRIGHT (C) 2004 U.S. Secretary of Commerce on Behalf of the U.S. Government

FILE 'NTIS' ENTERED AT 15:31:12 ON 18 OCT 2004 Compiled and distributed by the NTIS, U.S. Department of Commerce. It contains copyrighted material. All rights reserved. (2004)

FILE 'NUTRACEUT' ENTERED AT 15:31:12 ON 18 OCT 2004 Copyright 2004 (c) MARKETLETTER Publications Ltd. All rights reserved.

FILE 'OCEAN' ENTERED AT 15:31:12 ON 18 OCT 2004 COPYRIGHT (C) 2004 Cambridge Scientific Abstracts (CSA)

FILE 'PASCAL' ENTERED AT 15:31:12 ON 18 OCT 2004
Any reproduction or dissemination in part or in full,
by means of any process and on any support whatsoever
is prohibited without the prior written agreement of INIST-CNRS.
COPYRIGHT (C) 2004 INIST-CNRS. All rights reserved.

FILE 'PCTGEN' ENTERED AT 15:31:12 ON 18 OCT 2004 COPYRIGHT (C) 2004 WIPO

FILE 'PHAR' ENTERED AT 15:31:12 ON 18 OCT 2004 COPYRIGHT (C) 2004 PJB Publications Ltd. (PJB)

FILE 'PHARMAML' ENTERED AT 15:31:12 ON 18 OCT 2004 Copyright 2004 (c) MARKETLETTER Publications Ltd. All rights reserved.

FILE 'PHIC' ENTERED AT 15:31:12 ON 18 OCT 2004 COPYRIGHT (C) 2004 PJB Publications Ltd. (PJB)

FILE 'PHIN' ENTERED AT 15:31:12 ON 18 OCT 2004 COPYRIGHT (C) 2004 PJB Publications Ltd. (PJB)

FILE 'PROMT' ENTERED AT 15:31:12 ON 18 OCT 2004 COPYRIGHT (C) 2004 Gale Group. All rights reserved.

FILE 'PROUSDDR' ENTERED AT 15:31:12 ON 18 OCT 2004 COPYRIGHT (C) 2004 Prous Science

FILE 'PS' ENTERED AT 15:31:12 ON 18 OCT 2004 COPYRIGHT (C) 2004 Thieme on STN

FILE 'RDISCLOSURE' ENTERED AT 15:31:12 ON 18 OCT 2004 COPYRIGHT (C) 2004 Kenneth Mason Publications Ltd.

FILE 'SCISEARCH' ENTERED AT 15:31:12 ON 18 OCT 2004 Copyright (c) 2004 The Thomson Corporation.

FILE 'SYNTHLINE' ENTERED AT 15:31:12 ON 18 OCT 2004 COPYRIGHT (C) 2004 Prous Science

FILE 'TOXCENTER' ENTERED AT 15:31:12 ON 18 OCT 2004 COPYRIGHT (C) 2004 ACS

FILE 'USPATFULL' ENTERED AT 15:31:12 ON 18 OCT 2004 CA INDEXING COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'USPAT2' ENTERED AT 15:31:12 ON 18 OCT 2004 CA INDEXING COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'VETB' ENTERED AT 15:31:12 ON 18 OCT 2004 COPYRIGHT (C) 2004 THE THOMSON CORPORATION

FILE 'VETU' ENTERED AT 15:31:12 ON 18 OCT 2004 COPYRIGHT (C) 2004 THE THOMSON CORPORATION

FILE 'WATER' ENTERED AT 15:31:12 ON 18 OCT 2004 COPYRIGHT (C) 2004 Cambridge Scientific Abstracts (CSA)

FILE 'WPIDS' ENTERED AT 15:31:12 ON 18 OCT 2004 COPYRIGHT (C) 2004 THE THOMSON CORPORATION

```
FILE 'WPIFV' ENTERED AT 15:31:12 ON 18 OCT 2004
COPYRIGHT (C) 2004 THOMSON DERWENT
FILE 'WPINDEX' ACCESS NOT AUTHORIZED
=> s hypocretin OR orexin
  46 FILES SEARCHED..
           8500 HYPOCRETIN OR OREXIN
=> S L1 AND receptor
  27 FILES SEARCHED...
  53 FILES SEARCHED...
           4634 L1 AND RECEPTOR
=> S L2 AND human
  17 FILES SEARCHED...
  25 FILES SEARCHED...
  52 FILES SEARCHED...
  69 FILES SEARCHED...
           2084 L2 AND HUMAN
=> DUP REM L3
DUPLICATE IS NOT AVAILABLE IN 'ADISINSIGHT, ADISNEWS, BIOCOMMERCE, DGENE,
DRUGMONOG2, FEDRIP, FOREGE, GENBANK, IMSPRÓDUCT, IMSRESEARCH, KOSMET, MEDICONF, NUTRACEUT, PCTGEN, PHAR, PHARMAML, PROUSDDR, RDISCLOSURE, SYNTHLINE'.
ANSWERS FROM THESE FILES WILL BE CONSIDERED UNIQUE
PROCESSING IS APPROXIMATELY 63% COMPLETE FOR L3
PROCESSING COMPLETED FOR L3
            1263 DUP REM L3 (821 DUPLICATES REMOVED)
\Rightarrow S L4 AND PY<=2000
'2000' NOT A VALID FIELD CODE
   7 FILES SEARCHED...
   8 FILES SEARCHED...
  12 FILES SEARCHED...
  16 FILES SEARCHED...
  20 FILES SEARCHED...
 2000' NOT A VALID FIELD CODE
  29 FILES SEARCHED...
 2000' NOT A VALID FIELD CODE
  33 FILES SEARCHED...
 2000' NOT A VALID FIELD CODE
  44 FILES SEARCHED...
 2000' NOT A VALID FIELD CODE
  48 FILES SEARCHED...
  53 FILES SEARCHED...
'2000' NOT A VALID FIELD CODE
  59 FILES SEARCHED..
 2000' NOT A VALID FIELD CODE
  65 FILES SEARCHED...
  71 FILES SEARCHED...
            154 L4 AND PY<=2000
=> D L5 1-154
     ANSWER 1 OF 154 AGRICOLA Compiled and distributed by the National
     Agricultural Library of the Department of Agriculture of the United States
     of America. It contains copyrighted materials. All rights reserved.
     (2004) on STN
     2001:29148 AGRICOLA
AN
DN
     IND22300423
TI
     Reciprocal relation of food intake and sympathetic activity: experimental
     observations and clinical implications.
     Bray, G.A.
DNAL (RC628.A102)
ΑU
ΑV
SO
     International journal of obesity and related metabolic disorders : journal
     of the International Association for the Study of Obesity,
           2000.*** Vol. 24, No. suppl.2. p. s8-s17
     Publisher: Avenel, NJ: Nature Publishing Company
Paper presented at the symposium on "Endocrinology of Obesity: Basic,
NTE
     Clinical and Therapeutic Aspects," September 1998, Venice.
     Includes references
CY
     New Jersey; United States
DT
     Article
FS
     U.S. Imprints not USDA, Experiment or Extension
```

```
English
LA
      ANSWER 2 OF 154 AQUASCI COPYRIGHT 2004 FA Advisory Board). All rights reserved. on STN
L5
                                       COPYRIGHT 2004 FAO (On behalf of the ASFA
      2000:15298
AN
                    AQUASCI
      ASFA1 2000
DN
      Structure, tissue distribution, and pharmacological characterization of Xenopus ***orexins***
TI
ΑU
      Shibahara, M.; Sakurai, T.*; Nambu, T.; Takenouchi, T.; Iwaasa, H.;
      Egashira, S.-I.; Ihara, M.; Goto, K.
CS
      Institute of Basic Medical Sciences, University of Tsukuba, Tsukuba,
      Ibaraki 305-8575, Japan); E-mail: stakeshi@md.tsukuba.ac.j
Peptides, (_***19991000*** ) vol. 20, no. 10, pp. 1169-1176.
SO
      ISSN: 0196-9781.
DT
      Journal
      ASFA1
FS
      English
LA
      English
L5
      ANSWER 3 OF 154 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on
ΑN
      2001:329544 BIOSIS
DN
      PREV200100329544
      Regulation of feeding-associated peptides and
TI
                                                               ***receptors***
      nicotine.
ΑU
      Li, Ming D. [Reprint author]; Parker, Steven L.; Kane, Justin K.
      Department of Pharmacology, University of Tennessee College of Medicine, 874 Union Avenue, Memphis, TN, 38163, USA
CS
      mdli@utmem.edu
S0
      Molecular Neurobiology, (August-October-December, 2000) Vol. 22. No. 1-3.
      pp. 143-165. print.
      ISSN: 0893-7648.
DT
      Article
      General Review; (Literature Review)
      English
      Entered STN: 11 Jul 2001
      Last Updated on STN: 19 Feb 2002
L5
      ANSWER 4 OF 154 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation.
      2001:296011 BIOSIS
ΑN
      PREV200100296011
DN
      Molecular genetics of sleep regulation: Role of the
ΤI
                                                                      ***orexin***
      Chemelli, Richard M. [Reprint author]; Willie, Jon [Reprint author]; Sakurai, Takeshi [Reprint author]; Yanagisawa, Masashi [Reprint author]
ΑU
      Department of Molecular Genetics, Howard Hughes Medical Institute, University of Texas Southwestern Medical Center, Dallas, TX, USA Neuroscience Research Supplement, (2000) No. 24, pp. S4. print.
CS
SO
      Meeting Info : 23rd Annual Meeting of the Japan Neuroscience Society and
      the 10th Annual Meeting of the Japanese Neural Network Society. Yokohama,
      Japan. September 04-06, 2000. Japan Neuroscience Society; Japanese Neural
      Network Society.
      ISSN: 0921-8696.
      Conference; (Meeting)
Conference; Abstract; (Meeting Abstract)
DT
LA
      English
ED
      Entered STN: 20 Jun 2001
      Last Updated on STN: 19 Feb 2002
L5
      ANSWER 5 OF 154 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on
      STN
AN
      2001:181649 BIOSIS
DN
      PREV200100181649
ΤI
     The future of obesity treatment.
     Wilding, John [Reprint author]
University Hospital Aintree, Longmoor Lane, Liverpool, L9 7AL, UK
ΑU
CS
      j.p.h.wilding@liv.ac.uk
     Jolles, P. EXS (Basel), (2000) pp. 181-191. EXS (Basel). New approaches to
     drug development. print.
     Publisher: Birkhaeuser Boston, 675 Massachusetts Avenue, Cambridge, MA,
     02139, USA; Birkhaeuser Publishing Ltd., CH-4010, Basel, Switzerland.
     Series: EXS (Basel).
     ISSN: 1023-294X. ISBN: 3-7643-6129-8 (cloth).
DT
     Book
```

Book; (Book Chapter)

```
English
LA
ED
     Entered STN: 11 Apr 2001
     Last Updated on STN: 18 Feb 2002
     ANSWER 6 OF 154 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation.
L5
     STN
ΑN
     2001:108545 BIOSIS
     PREV200100108545
DN
        ***Orexin***
                        -B conjugated to saporin lesions LH and TMN neurons and
TI
     produces narcoleptic-like sleep in rats.
     Gerashchenko, D. [Reprint author]; Greco, M. A.; Salin-Pascual, R.;
ΑU
     Kilduff, T. S.; Lappi, D. A.; Shiromani, P. J.
     VAMC-West Roxbury, West Roxbury, MA, USA
Society for Neuroscience Abstracts, (2000) Vol. 26, No. 1-2, pp. Abstract
No.-566.27. print.
Meeting Info.: 30th Annual Meeting of the Society of Neuroscience. New
     orleans, LA, USA. November 04-09, 2000. Society for Neuroscience.
     ISSN: 0190-5295.
     Conference; (Meeting)
DT
     Conference; Abstract; (Meeting Abstract)
LA
     English
     Entered STN: 28 Feb 2001
ED
     Last Updated on STN: 15 Feb 2002
L5
     ANSWER 7 OF 154 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation.
     STN
     2001:108544 BIOSIS
AN
     PREV200100108544
DN
     Measurement of CSF
                             ***hypocretin*** -1 levels in familial and sporadic
TI
     cases of canine narcolepsy.
     Ripley, B. [Reprint author]; Okura, M.; Fujiki, N.; Mignot, E.; Nishino,
ΑU
     Stanford University, Palo Alto, CA, USA
     Society for Neuroscience Abstracts, (2000) Vol. 26, No. 1-2, pp. Abstract No.-566.26. print.
Meeting Info.: 30th Annual Meeting of the Society of Neuroscience. New
S0
     orleans, LA, USA. November 04-09, 2000. Society for Neuroscience.
     ISSN: 0190-5295.
DT
     Conference; (Meeting)
     Conference: Abstract: (Meeting Abstract)
LA
     English
ED
     Entered STN: 28 Feb 2001
     Last Updated on STN: 15 Feb 2002
L5
     ANSWER 8 OF 154 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation, on
     STN
     2001:107871 BIOSIS
ΑN
DN
     PREV200100107871
TI
        ***Orexin***
                             ***receptor***
                                                binding is downregulated in rat
     brain by nicotine and associated with phospholipase C, G-proteins, and
     cross-reactivity to NPY.
ΑU
     Kane, J. K. [Reprint author]; Parker, S. L.; Tanaka, H.; Yanaqisawa, M.;
     Malik, K. U.; Li, M. D.
     Univ Tennessee College of Medicine, Memphis, TN, USA
     Society for Neuroscience Abstracts, (2000) Vol. 26, No. 1-2, pp. Abstract No.-369.14. print.
SO
     Meeting Info.: 30th Annual Meeting of the Society of Neuroscience. New
     Orleans, LA, USA. November 04-09, 2000. Society for Neuroscience.
     ISSN: 0190-5295.
DT
     Conference; (Meeting)
     Conference; Abstract; (Meeting Abstract)
     English
LA
     Entered STN: 28 Feb 2001
ED
     Last Updated on STN: 15 Feb 2002
L5
     ANSWER 9 OF 154 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on
     STN
ΑN
     2001:107870 BIOSIS
     PREV200100107870
DN
ΤI
     Effects of nicotine on the expression of plasma leptin and its
        ***receptor***
                          mRNAs in rat.
     Li, M. D. [Reprint author]; Kane, J. K.; Matta, S. G.; Huang, W.; Fu, Y.;
ΑU
     McAllen, K.; Sharp, B. M.
     University of Tennessee Med. Sch., Memphis, TN, USA
Society for Neuroscience Abstracts, (2000) Vol. 26, No. 1-2, pp. Abstract
SO
```

No.-369.13. print.

```
Meeting Info.: 30th Annual Meeting of the Society of Neuroscience. New
Orleans, LA, USA. November 04-09, 2000. Society for Neuroscience. ISSN: 0190-5295.
Conference; (Meeting)
Conference; Abstract; (Meeting Abstract)
English
Entered STN: 28 Feb 2001
Last Updated on STN: 15 Feb 2002
ANSWER 10 OF 154 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation.
2001:107735 BIOSIS
PREV200100107735
Neuromodulation of GABA in developing and mature hypothalamic neurons. van den Pol, Anthony N. [Reprint author]; Obrietan, Karl Department of Neurosurgery, Yale University Medical School, New Haven, CT,
06520, USA
Martin, David L.; Olsen, Richard W. (2000) pp. 409-438. GABA in the
nervous sytem: The view at fifty years, print,
Publisher: Lippincott Williams and Wilkins, 530 Walnut Street,
Philadelphia, PA, 19106-3261, USA. Series: GABA in the nervous sytem: The
view at fifty years.
ISBN: 0-7817-2267-5 (cloth).
Book
Book;
      (Book Chapter)
English
Entered STN: 28 Feb 2001
Last Updated on STN: 15 Feb 2002
ANSWER 11 OF 154 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on
STN
2001:89097 BIOSIS
PREV200100089097
                     : A role in medullary sympathetic outflow.
  ***Orexins***
Dun, Nae J. [Reprint author]; Dun, Siok Le; Chen, Chiung-Tong; Hwang, Ling
Ling; Kwok, Ernest H.; Chang, Jaw-Kang
Department of Pharmacology, James H. Quillen College of Medicine, East
Tennessee State University, Johnson City, TN, 37614, USA
dunnaec@etsu.edu
Regulatory Peptides, (22 \text{ December}, 2000) \text{ Vol. } 96, No. 1-2, pp. 65-70.
CODEN: REPPDY. ISSN: 0167-0115.
Article
English
Entered STN: 14 Feb 2001
Last Updated on STN: 12 Feb 2002
ANSWER 12 OF 154 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation.
STN
2001:87918 BIOSIS
PREV200100087918
       ***hypocretin*** / ***orexin***
                                                 ligand- ***receptor***
system: implications for sleep and autonomic regulation.
Kilduff, T. S. [Reprint author]; Sutcliffe, J. G.; Yanagisawa, M.; Leibowitz, S. F.; Mignot, E.; Siegel, J. SRI International, Menlo Park, CA, USA
Society for Neuroscience Abstracts, (2000) Vol. 26, No. 1-2, pp. Abstract
No.-197. print.
Meeting Info.: 30th Annual Meeting of the Society of Neuroscience. New
Orleans, LA, USA. November 04-09, 2000. Society for Neuroscience.
ISSN: 0190-5295.
Conference; (Meeting)
Conference; Abstract; (Meeting Abstract)
English
Entered STN: 14 Feb 2001
Last Updated on STN: 12 Feb 2002
ANSWER 13 OF 154 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on
STN
2001:61866 BIOSIS
PREV200100061866
Expression and coupling characteristics of the corticotropin-releasing
                       ***orexin***
                                           ***receptors***
hormone (CRH) and
                                                                in
                                                                       ***human***
fetal adrenals.
Karteris, E. [Reprint author]; Randeva, H. [Reprint author];
Grammatopoulos, D. G. [Reprint author]; Hillhouse, E. W. [Reprint author]
```

TC

ΞD

_5

٩N

NC

ΙI

50

TC

ΞD

L**5** 

٩N

NC

TI

50

TC

LΑ

ΞD

L5

NA NC

ΓI

50

TC

ΞD

_5

١N

NC

Π

١U

```
Molecular Medicine Research Centre, University of Warwick, Coventry, CV4
    Journal of Endocrinology, (November, 2000) Vol. 167, No. Supplement, pp.
0
    OC23. print.
    Meeting Info.: 191st Meeting of the Society for Endocrinology. London,
    England, UK. November 20-21, 2000. Society for Endocrinology.
    CODEN: JOENAK. ISSN: 0022-0795.
Т
    Conference; (Meeting)
    Conference; Abstract; (Meeting Abstract)
    English
D
    Entered STN: 31 Jan 2001
    Last Updated on STN: 12 Feb 2002
5
    ANSWER 14 OF 154 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on
    2001:60228 BIOSIS
Ν
    PREV200100060228
Ν
Ι
    Identification and characterization of two G protein-coupled
      ***receptors***
                          for neuropeptide FF.
    Bonini, James A. [Reprint author]; Jones, Kenneth A.; Adham, Nika; Forray,
U
    Carlos; Artymyshyn, Roman; Durkin, Margaret M.; Smith, Kelli E.; Tamm,
    Joseph A.; Boteju, Lakmal W.; Lakhlani, Parul P.; Raddatz, Rita; Yao,
    Wen-Jeng; Ogozalek, Kristine L.; Boyle, Noel; Kouranova, Evguenia V.;
    Quan, Yong; Vaysse, Pierre J.; Wetzel, John M.; Branchek, Theresa A.;
Gerald, Christophe; Borowsky, Beth
Synaptic Pharmaceutical Corp., 215 College Rd., Paramus, NJ, 07652, USA
S
    jbonini@synapticcorp.com
    Journal of Biological Chemistry, (December 15, 2000) vol. 275, No. 50, pp.
0
    39324-39331. print.
    CODEN: JBCHA3. ISSN: 0021-9258.
Т
    Article
    English
Α
D
    Entered STN: 31 Jan 2001
    Last Updated on STN: 12 Feb 2002
5
    ANSWER 15 OF 154 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on
    STN
    2000:498150 BIOSIS
Ν
    PREV200000498271
Ι
    Nicotine up-regulates expression of
                                              ***orexin***
                                                               and its
      ***receptors***
                          in rat brain.
U
    Kane, J. K.; Parker, S. L.; Matta, S. G.; Fu, Y.; Sharp, B. M.; Li, M. D.
    [Reprint author]
    Department of Pharmacology, University of Tennessee, 874 Union Avenue,
S
    Memphis, TN, 38163, USA
0
    Endocrinology, (October, 2000) Vol. 141, No. 10, pp. 3623-3629. print. CODEN: ENDOAO. ISSN: 0013-7227.
    Article
    English
D
    Entered STN: 15 Nov 2000
    Last Updated on STN: 10 Jan 2002
5
    ANSWER 16 OF 154 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on
    STN
    2000:484294 BIOSIS
    PREV200000484294
   The ***hypocretins*** : Excitatory neuromodulatory peptides for multiple homeostatic systems, including sleep and feeding.
Sutcliffe, J. Gregor [Reprint author]; de Lecea, Luis
    Department of Molecular Biology, Scripps Research Institute, 10550 N.
    Torrey Pines Road, La Jolla, CA, 92037, USA
    Journal of Neuroscience Research, (October 15, 2000) Vol. 62, No. 2, pp.
    161-168. print.
    CODEN: JNREDK. ISSN: 0360-4012.
    Article
    General Review; (Literature Review)
    English
    Entered STN: 8 Nov 2000
    Last Updated on STN: 10 Jan 2002
   ANSWER 17 OF 154 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on
   STN
    2000:473470 BIOSIS
   PREV200000473470
    Reduced number of
                          ***hypocretin***
                                                              ***human***
                                               neurons in
    narcolepsy.
```

```
ΑU
     Thannickal, Thomas C.; Moore, Robert Y.; Nienhuis, Robert; Ramanathan,
     Lalini; Gulyani, Seemá; Aldrich, Michael; Cornford, Marsha; Siegel, Jerome
     M. [Reprint author]
CS
     Department of Psychiatry, Brain Research Institute, University of
     California, Los Angeles, CA, USA
SO
     Neuron, (September, 2000) Vol. 27, No. 3, pp. 469-474. print.
     ISSN: 0896-6273.
DT
     Article
     English
     Entered STN: 1 Nov 2000
ED
     Last Updated on STN: 10 Jan 2002
     ANSWER 18 OF 154 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on
L5
     STN
     2000:473460
ΑN
                 BIOSIS
     PREV200000473460
DN
ΤI
     DLA-DQB1 alleles and bone marrow transplantation experiments in
     narcoleptic dogs.
     Wagner, J. L.; Storb, R.; Storer, B.; Mignot, E. [Reprint author]
ΑU
CS
     Stanford University Center for Narcolepsy, 1201 Welch Road, Room P-114,
     Palo Alto, CA, 94304-5485, USA
SO
     Tissue Antigens, (September, 2000) Vol. 56, No. 3, pp. 223-231. print.
     CODEN: TSANA2. ISSN: 0001-2815.
DT
     Article
     English
ED
     Entered STN: 1 Nov 2000
     Last Updated on STN: 10 Jan 2002
L5
     ANSWER 19 OF 154 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation.
     2000:446055 BIOSIS
ΑN
DN
     PREV200000446055
     The hypothalamus and the regulation of energy homeostasis: Lifting the lid
TI
     on a black box.
     Williams, Gareth [Reprint author]; Harrold, Joanne A.; Cutler, David J.
CS
     Diabetes and Endocrinology Research Group, Department of Medicine,
     University of Liverpool, Liverpool, L69 3GA, UK
     Proceedings of the Nutrition Society, (August, 2000) Vol. 59, No. 3, pp.
S0
     385-396. print.
     CODEN: PNUSA4. ISSN: 0029-6651.
DT
     Conterence; (Meeting)
     Conference; (Meeting Paper)
     English
ED
     Entered STN: 18 Oct 2000
     Last Updated on STN: 10 Jan 2002
L5
     ANSWER 20 OF 154 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on
     STN
ΑN
     2000:365132
                 BĬOSIS
DN
     PREV200000365132
ΤI
     Increased body mass index in narcolepsy.
    Schuld, A. [Reprint author]; Hebebrand, J.; Geller, F.; Kraus, T. [Reprint author]; Pollmaecher, T. [Reprint author]
ΑU
    Max-Planck-Institute of Psychiatry, Munich, Germany
European Journal of Neuroscience, (2000) Vol. 12, No. Supplement 11, pp.
50

    167. print.

    Meeting Info.: Meeting of the Federation of European Neuroscience
    Societies. Brighton, UK. June 24-28, 2000.
    ISSN: 0953-816X.
TC
    Conference; (Meeting)
    Conference; Abstract; (Meeting Abstract)
    Conference; (Meeting Poster)
    English
    Entered STN: 23 Aug 2000
ΞD
    Last Updated on STN: 8 Jan 2002
_5
    ANSWER 21 OF 154 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on
    STN
NΑ
    2000:324994 BIOSIS
    PREV200000324994
NC
                      ***orexin*** -A binding to phospholipase C inhibitors,
ΓI
    Sensitivity of
    neuropeptide Y, and secretin.
Ų٤
    Kane, J. K.; Tanaka, H.; Parker, S. L.; Yanagisawa, M.; Li, M. D. [Reprint
    Department of Pharmacology, University of Tennessee College of Medicine,
    Memphis, TN, 38163, USA
```

```
Biochemical and Biophysical Research Communications, (June 16, 2000) Vol.
S0
     272, No. 3, pp. 959-965. print.
     CODEN: BBRCA9. ISSN: 0006-291X.
DT
     Article
     English
     Entered STN: 2 Aug 2000
ED
     Last Updated on STN: 7 Jan 2002
     ANSWER 22 OF 154 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on
L5
     STN
     2000:254224 BIOSIS
AN
     PREV200000254224
DN
                   ***human***
     Linkage of
                                  narcolepsy with HLA association to chromosome
TI
     4p13-q21.
     Nakayama, Junko; Miura, Miki; Honda, Makoto; Miki, Tetsuro; Honda, Yutaka; Arinami, Tadao [Reprint author]
ΑU
     Department of Medical Genetics, Institute of Basic Medical Sciences,
CS
     University of Tsukuba, Tsukuba, Ibaraki, 305-8575, Japan
     Genomics, (April 1, 2000) Vol. 65, No. 1, pp. 84-86. print.
S0
     CODEN: GNMCEP. ISSN: 0888-7543.
DT
     Article
     Enalish
LA
ED
     Entered STN: 21 Jun 2000
     Last Updated on STN: 5 Jan 2002
L5
     ANSWER 23 OF 154 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation.
     STN
AN
     2000:236181 BIOSIS
     PREV200000236181
DN
            ***hypocretins***
                                 are weak agonists at recombinant
TI
                                                                       ***human***
       ***orexin*** -1 and
                                ***orexin*** -2
                                                    ***receptors***
ΑU
     Smart, D. [Reprint author]; Jerman, J. C.; Brough, S. J.; Neville, W. A.;
     Jewitt, F.; Porter, R. A.
CS
     Neuroscience Research, Smith Kline Beecham Pharmaceuticals, Third Avenue,
     Harlow, New Frontiers Science Park, Essex, CM19 5AW, UK
S0
     British Journal of Pharmacology, (April, 2000) Vol. 129, No. 7, pp.
     1289-1291. print.
     CODEN: BJPCBM. ISSN: 0007-1188.
DT
     Article
     Enalish
LA
ED
     Entered STN: 7 Jun 2000
     Last Updated on STN: 5 Jan 2002
     ANSWER 24 OF 154 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation.
L5
     STN
     2000:185402 BIOSIS
ΑN
     PREV200000185402
DN
     Discovery and function of the
                                       ***orexin***
TI
                                                        system: To eat or to
     sleep?
     Chemelli, Richard M. [Reprint author]; Sakurai, Takeshi [Reprint author];
ΑU
     Yanagisawa, Masashi [Reprint author]
CS
     Department of Molecular Genetics, Howard Hughes Medical Institute,
     University of Texas Southwestern Medical Center, Dallas, TX, 75235-9050,
     USA
     Brain Research, (Nov. 27, 1999) Vol. 848, No. 1-2, pp. A18-A19. print. Meeting Info.: 2nd Brain Research Interactive Sypmosium. Miami, FL, USA. October 21-23, 1999.
CODEN: BRREAP. ISSN: 0006-8993.
SO
DT
     Conference; (Meeting)
     Conference; Abstract; (Meeting Abstract)
LA
     Entered STN: 11 May 2000
ED
     Last Updated on STN: 4 Jan 2002
L5
     ANSWER 25 OF 154 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation.
     STN
ΑN
     2000:170904 BIOSIS
     PREV200000170904
DN
       ***Hypocretin***
                              ***orexin*** ) deficiency in
TI
                                                                 ***human***
     narcolepsy.
     Nishino, Seiji [Reprint author]; Ripley, Beth; Overeem, Sebastiaan;
ΑU
     Lammers, Gert Jan; Mignot, Emmanuel [Reprint author]
     Center for Narcolepsy, Department of Psychiatry, Stanford University
CS
     School of Medicine, Stanford, CA, 94305, USA
     Lancet (North American Edition), (Jan. 1, 2000) Vol. 355, No. 9197, pp.
50
```

39-40. print.

```
ISSN: 0099-5355.
     Article
DT
LA
     English
     Entered STN: 3 May 2000
ED
     Last Updated on STN: 4 Jan 2002
L5
     ANSWER 26 OF 154 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on
     STN
     2000:123110 BIOSIS
AN
     PREV200000123110
DN
     Differential regulation of melanin-concentrating hormone and
        ***orexin*** genes in the agouti-related protein/melanocortin-4
***receptor*** system.
ΤI
     Hanada, Reiko; Nakazato, Masamitsu; Matsukura, Shigeru; Murakami, Noboru;
Yoshimatsu, Hironobu; Sakata, Toshiie [Reprint author]
ΑU
     Department of Internal Medicine I, School of Medicine, Oita Medical
CS
     University, Oita, 879-5593, Japan
Biochemical and Biophysical Research Communications, (Feb. 5, 2000) Vol.
S0
     268, No. 1, pp. 88-91. print.
     CODEN: BBRCA9. ISSN: 0006-291X.
     Article
DT
     Enalish
L.A
ED
     Entered STN: 5 Apr 2000
     Last Updated on STN: 3 Jan 2002
L5
     ANSWER 27 OF 154 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation.
     STN
     2000:88810 BIOSIS
ΑN
DN
     PREV200000088810
     Solution structure of a new hypothalamic neuropeptide, ***hypocretin*** -2/ ***orexin*** -B.
                                                                       ***human***
ΤI
ΑU
     Lee, Jung-Hoon; Bang, Eunjung; Chae, Kyeong-Jun; Kim, Jin-Young; Lee, Dai
     Woon; Lee, Weontae [Reprint author]
Department of Biochemistry, College of Science, Yonsei University,
Seodaemoon-Gu, 134, Shinchon-Dong, Seoul, 120-749, South Korea
European Journal of Biochemistry, (Dec., 1999) Vol. 266, No. 3, pp.
CS
50
     831-839. print.
     CODEN: EJBCAI. ISSN: 0014-2956.
DT
     Article
     English
LA
ED
     Entered STN: 10 Mar 2000
     Last Updated on STN: 3 Jan 2002
L5
     ANSWER 28 OF 154 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation.
     STN
     2000:60572 BIOSIS
ΑN
     PREV200000060572
DN
TI
     Hypothalamic control of feeding.
ΑU
     Lawrence, Catherine B.; Turnbull, Andrew V.; Rothwell, Nancy J. [Reprint
     author]
CS
     School of Biological Sciences, University of Manchester, Oxford Road,
     Manchester, M13 9PT, UK
     Current Opinion in Neurobiology, (Dec., 1999) Vol. 9, No. 6, pp. 778-783.
SO
     print.
     ISSN: 0959-4388.
DT
     Article
     General Review; (Literature Review)
LA
     English
ED
     Entered STN: 9 Feb 2000
     Last Updated on STN: 3 Jan 2002
L5
     ANSWER 29 OF 154 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on
     STN
ΑN
     1999:477953 BIOSIS
     PREV199900477953
DN
TT
     Characterization of recombinant
                                           ***human***
                                                               ***orexin***
        ***receptor***
                           pharmacology in a Chinese hamster ovary cell-line using
ΑU
     Smart, D. [Reprint author]; Jerman, J. C.; Brough, S. J.; Rushton, S. L.;
     Murdock, P. R.; Jewitt, F.; Elshourbagy, N. A.; Ellis, C. E.; Middlemiss,
     D. N.; Brown, F.
CS
     Neuroscience Research, New Frontiers Science Park, SmithKline Beecham
     Pharmaceuticals, Third Avenue, Harlow, Essex, CM19 5AW, UK
     British Journal of Pharmacology, (Sept., 1999) Vol. 128, No. 1, pp. 1-3.
S0
```

print.

CODEN: BJPCBM. ISSN: 0007-1188.

```
Article
LA
     English
     Entered STN: 9 Nov 1999
ED
     Last Updated on STN: 3 May 2000
     ANSWER 30 OF 154 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on
L5
     STN
     1999:459832
ΑN
     PREV199900459832
DN
                                    ***hypocretins***
     Narcolepsy: A key role for
                                                          ( ***Orexins***
TT
     Siegel, Jerome M. [Reprint author]
ΑIJ
     Neurobiology Research, Veterans Administration Medical Center, North
CS
     Hills, CA, 91343, USA
     Cell, (Aug. 20, 1999) Vol. 98, No. 4, pp. 409-412. print.
S0
     CODEN: CELLB5. ISSN: 0092-8674.
     Article
DT
     English
ΙΑ
     Entered STN: 1 Nov 1999
ED
     Last Updated on STN: 3 May 2000
     ANSWER 31 OF 154 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation.
L5
     1999:450329 BIOSIS
ΑN
     PREV199900450329
DN
     The sleep disorder canine narcolepsy is caused by a mutation in the ***hypocretin*** ( ***orexin*** ) ***receptor*** 2 gene.
TI
     Lin, Ling; Faraco, Juliette; Li, Robin; Kadotani, Hiroshi; Rogers, William; Lin, Xiaoyan; Qiu, Xiaohong; de Jong, Pieter J.; Nishino, Seiji;
     Mignot, Emmanuel [Reprint author]
CS
     Center for Narcolepsy, Department of Psychiatry, Stanford University
     School of Medicine, Stanford, CA, 94305-5485, USA
     Cell, (Aug. 6, 1999) Vol. 98, No. 3, pp. 365-376. print.
SO
     CODEN: CELLB5. ISSN: 0092-8674.
DT
     Article
     English
LA
     Entered STN: 26 Oct 1999
ED
     Last Updated on STN: 26 Oct 1999
L5
     ANSWER 32 OF 154 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on
     STN
     1999:226518 BIOSIS
AN
     PREV199900226518
DN
                     ***hypocretin***
                                         ( ***orexin*** ): Robust innervation
ΤI
     Hypothalamic
     of the spinal cord.
     van den Pol, Anthony N. [Reprint author]
ΑIJ
     Department of Neurosurgery, Yale University School of Medicine, 333 Cedar
CS
     Street, New Haven, CT, 06520, USA
     Journal of Neuroscience, (April 15, 1999) Vol. 19, No. 8, pp. 3171-3182.
SO
     print.
     CODEN: JNRSDS. ISSN: 0270-6474.
DT
     Article
     English
LA
ED
     Entered STN: 17 Jun 1999
     Last Updated on STN: 17 Jun 1999
L5
     ANSWER 33 OF 154 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on
     STN
     1999:204030 BIOSIS
ΑN
DN
     PREV199900204030
     Sequence and tissue distribution of a novel G-protein-coupled
TI
       ***receptor***
                         expressed prominently in
                                                      ***human***
ΑIJ
     Cikos, Stefan; Gregor, Paul; Koppel, Juraj [Reprint author]
CS
     Institute of Animal Physiology, Slovak Academy of Sciences, Soltesovej 4,
     04001, Kosice, Slovakia
     Biochémical and Biophysical Research Communications, (March 16, 1999) Vol.
SO
     256, No. 2, pp. 352-356. print.
     CODEN: BBRCA9. ISSN: 0006-291X.
DT
     Article
     English
LA
     Genbank-AF119815; EMBL-AF119815
OS
ED
     Entered STN: 26 May 1999
     Last Updated on STN: 26 May 1999
L5
     ANSWER 34 OF 154 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on
     STN
```

1999:24843 BIOSIS

ΑN

```
DN
       PREV199900024843
      Chemically defined projections linkings the mediobasal hypothalamus and
TI
       the lateral hypothalamic area.
      Elias, Carol F.; Saper, Clifford B.; Maratos-Flier, Eleftheria; Tritos, Nicholas A.; Lee, Charlotte; Kelly, Joseph; Tatro, Jeffrey B.; Hoffman, Gloria E.; Ollmann, Michael M.; Barsh, Gregory S.; Sakurai, Takeshi; Yanagisawa, Masashi; Elmquist, Joel K. [Reprint author]
Div. Endocrinol., Beth Israel Deaconess Med. Cent., 325 Research North, 99
ΑU
CS
       Brookline Ave., Boston, MA 02215, USA
       Journal of Comparative Neurology, (Dec. 28, 1998) Vol. 402, No. 4, pp.
S0
       442-459. print.
       CODEN: JCNEAM. ISSN: 0021-9967.
       Article
DT
       English
LA
       Entered STN: 20 Jan 1999
ED
       Last Updated on STN: 20 Jan 1999
       ANSWER 35 OF 154 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on
L5
       STN
       1998:135519 BIOSIS
AN
       PREV199800135519
DN
         ***Orexins***
                                        ***orexin***
                                                              ***receptors*** : A family of
                               and
TI
       hypothalamic neuropeptides and G protein-coupled ***receptors***
      regulate feeding behavior.

Sakurai, Takeshi; Amemiya, Akira; Ishii, Makoto; Matsuzaki, Ichiyo;
Chemelli, Richard M.; Tanaka, Hirokazu; Williams, S. Clay; Richardson,
James A.; Kozlowski, Gerald P.; Wilson, Shelagh; Arch, Jonathan R. S.;
Buckingham, Robin E.; Haynes, Andrea C.; Carr, Steven A.; Annan, Roland
S.; McNulty, Dean E.; Liu, Wu-Schyong; Terrett, Jonathan A.; Elshourbagy,
ΑU
       Nabil A.; Bergsma, Derk J.; Yanagisawa, Masahi
      Howard Hughes Med. Inst., Dep. Mol. Genet., Univ. Texas Southwestern Med. Cent. Dallas, Dallas, TX 75235-9050, USA Cell, (Feb. 20, 1998) Vol. 92, No. 4, pp. 573-585. print. CODEN: CELLB5. ISSN: 0092-8674.
CS
S0
       Article
DT
       English
LA
       Genbank-AF41240; Genbank-AF41241; Genbank-AF41242; Genbank-AF41243; Genbank-AF41244; Genbank-AF41245; Genbank-AF41246
OS
       Entered STN: 20 Mar 1998
ED
       Last Updated on STN: 20 Mar 1998
L5
        ANSWER 36 OF 154 BIOTECHNO COPYRIGHT 2004 Elsevier Science B.V. on STN
        2000:30991052
ΑN
                              BIOTECHNO
TI
        Forty winks: Molecular basis of sleep disorders
        Sansom C.
ΑU
        Molecular Medicine Today, ( ***2000*** ), 6/12 (453), 5 reference(s)
SO
        CODEN: MMTOFK ISSN: 1357-4310
        Journal; Note
DT
        United Kingdom
CY
        English
LA
L5
        ANSWER 37 OF 154 BIOTECHNO COPYRIGHT 2004 Elsevier Science B.V. on STN
        2000:30843910
ΑN
                              BIOTECHNO
        Transgenic study of energy homeostasis equation: Implications and
TT
        confounding influences
        Inui A.
        A. Inui, Second Dept. of Internal Medicine, Kobe University School of
CS
        Medicine, Kusunoki-cho, Chuo-ku, Kobe 650-0017, Japan.
        E-mail: inui@med.kobe-u.ac.jp

FASEB Journal, ( ***2000**** ), 14/14 (2158-2170), 189 reference(s)

CODEN: FAJOEC ISSN: 0892-6638
50
DT
        Journal; General Review
        United States
CY
        English
LA
ŞL
        English
L5
        ANSWER 38 OF 154 BIOTECHNO COPYRIGHT 2004 Elsevier Science B.V. on STN
        2000:30598816
                             BIOTECHNO
AN
TI
        Promising new approaches to the management of obesity
ΑU
        Mertens I.L.; Van Gaal L.F.
        Dr. L.F. Van Gaal, Dept. Endocrinol. Metab./Clin. Nutr., Faculty of
CS
        Medicine, University Hospital Antwerp, Wilrijkstraat 10, B-2650 Edegem
        Antwerp, Belgium.
        E-mail: luc.van.gaal@uza.uia.ac.be
        Drugs, ( ***2000*** ), 60/1 (1-9), 104 reference(s) CODEN: DRUGAY ISSN: 0012-6667
SO
```

```
Journal; Editorial
CY
      New Zealand
I A
      English
SL
      English
      ANSWER 39 OF 154 BIOTECHNO COPYRIGHT 2004 Elsevier Science B.V. on STN
15
      1999:29502045
AN
                      BIOTECHNO
        ***Orexins***
                       : A new family of neuropeptides
TI
ΑU
CS
      D. Smart, Neuroscience Department, SmithKline Beecham Pharmaceuticals,
      New Frontiers Science Park, Third Avenue, Harlow, Essex CM19 5AW, United
      Kingdom.
      British Journal of Anaesthesia, ( ***1999*** ), 83/5 (695-697), 15
SO
      reference(s)
      CODEN: BJANAD ISSN: 0007-0912
      Journal; Editorial
DT
      United Kingdom
CY
      English
LA
L5
      ANSWER 40 OF 154 BIOTECHNO COPYRIGHT 2004 Elsevier Science B.V. on STN
      1998:28307031
AN
                       BIOTECHNO
TI
      Functional genomics: The search for novel neurotransmitters and
      neuropeptides
      Civelli 0.
ΑU
      O. Civelli, Department of Pha
CA 92697-4625, United States.
CS
                  Department of Pharmacology, University of California, Irvine,
      E-mail: ocivelli@uci.edu
                       ***(23 JUN 1998)*** , 430/1-2 (55-58), 40 reference(s)
      FEBS Letters,
SO
                     ISSN: 0014-5793
      CODEN: FEBLAL
PUI
      S0014579398005249
DT
      Journal; Conference Article
CY
      Netherlands
      English
ĽΑ
SL
      English
L5
     ANSWER 41 OF 154 CABA COPYRIGHT 2004 CABI ON STN
     2000:122862
AΝ
                   CABA
DN
     20001417667
TI
     Reciprocal relation of food intake and sympathetic activity: experimental
     observations and clinical implications
ΑU
CS
     Pennington Biomedical Research Center, 6400 Perkins Road, Baton Rouge, LA
     70808, USA.
     International Journal of Obesity, ( ***2000*** ) Vol. 24, No. supp 2,
SO
     pp. 58-S17. 101 ref.
     Meeting Info.: Endocrinology of obesity: basic, clinical and therapeutic aspects. Satellite symposium of the 8th International Congress of Obesity,
     Venice, Italy, September 1998.
     ISSN: 0307-0565
DT
     Journal
LA
     English
ED
     Entered STN: 20001006
     Last Updated on STN: 20040216
L5
     ANSWER 42 OF 154 CAPLUS COPYRIGHT 2004 ACS ON STN
     2001:792265
ΑN
                  CAPLUS
DN
     135:339855
TI
     Novel ligands of the neuropeptide
                                           ***receptor***
                                                              HGFAN72 and
     therapeutic agonists or antagonists thereof
IN
     Bergsma, Derk J.; Brooks, David P.; Gellai, Miklos;; Yanagisawa, Masashi;
     Wilson, Shelagh
PA
     Smithkline Beecham Corp., USA; Board of Regents the University of Texas
SO
     U.S., 25 pp., Cont.-in-part of U.S. Ser. No. 887,382, abandoned.
     CODEN: USXXAM
DT
     Patent
LA
     English
FAN.CNT 2
     PATENT NO.
                          KIND
                                  DATE
                                               APPLICATION NO.
                                                                        DATE
ΡI
     US 6309854
                           В1
                                  20011030
                                               us 1997-939093
                                                                        19970926
     us 6001963
                                  19991214
                                               us 1997-938548
                                                                        19970926 <--
     CA 2218452
                           AA
                                  19980607
                                               CA 1997-2218452
                                                                        19971216 <--
     CA 2218452
                                  20011204
                           C
     EP 849361
```

Α2

EP 849361

19980624

20000419

EP 1997-310216

19971217 <--

DT

```
AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
              IE, SI, LT, LV, FI, RO
     JP 10229887
                                   19980902
                           Α2
                                               JP 1997-370022
                                                                        19971217 <--
     US 2002082202
                                               US 2000-737379
                                  20020627
                           Α1
                                                                         20001215
     US 6750026
                                  20040615
                           - B2
PRAI US 1996-33604P
                           Р
                                  19961217
     us 1997-820519
                            B2
                                  19970319
     us 1997-887382
                           В2
                                  19970702
     US 1997-939093
                           Α
                                  19970926
RE.CNT 16
               THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD
               ALL CITATIONS AVAILABLE IN THE RE FORMAT
L5
     ANSWER 43 OF 154 CAPLUS COPYRIGHT 2004 ACS on STN
AN
     2001:122497 CAPLUS
     135:87214
DN
       ***Orexins***
                       ( ***hypocretins*** ) - new neuropeptides regulating
TI
     appetite and wake-sleep rhythm
ΑU
     Beltowski, Jerzy
     Dept. of Pathophysiol., Univ. School of Medicine, Lublin, 20090, Pol. Endokrynologia Polska (***2000*** ), 51(3), 423-428
CS
SO
     CODEN: EDPKAZ; ISSN: 0423-104X
     Zarzad Glowny Polskiego Towarzystwa Endokrynologicznego
PB
DT
     Journal; General Review
LA
     Polish
     ANSWER 44 OF 154 CAPLUS COPYRIGHT 2004 ACS on STN
L5
     2000:894797 CAPLUS
ΑN
     134:290633
DN
TI
     SAR of the novel neuropeptides
                                       ***orexin*** -A and B
ΑU
     Jarosinski, Mark A.; Dodson, W. Scott; Harding, Bennet J.; Zamborelli,
     Thomas J.; Lenz, Douglas M.; Cooke, Keegan; Yan, Hai; Baumgartner, James;
     Karbon, E. William
     Amgen Inc., Boulder, CO, 80301, USA
Peptides for the New Millennium, Proceedings of the American Peptide
CS
SO
     Symposium, 16th, Minneapolis, MN, United States, June 26-July 1, 1999 (
***2000*** ), Meeting Date 1999, 668-670. Editor(s): Fields, Gregg B.;
     Tam, James P.; Barany, George. Publisher: Kluwer Academic Publishers,
     Dordrecht, Neth.
     CODEN: 69ATHX
DT
     Conference
IΑ
     English
RE.CNT 2
               THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD
              ALL CITATIONS AVAILABLE IN THE RE FORMAT
L5
     ANSWER 45 OF 154 CAPLUS COPYRIGHT 2004 ACS on STN
     2000:856288 CAPLUS
ΑN
DN
     134:264081
TI
     Neuropeptides and obesity
     Beck, Bernard
ΑU
CS
     INSERM U.308 Mecanismes de Regulation du Comportement Alimentaire, Nancy,
     Nutrition (New York) ( ***2000*** ), 16(10), 916-923
S0
     CODEN: NUTRER; ISSN: 0899-9007
     Elsevier Science Inc.
PB
DT
     Journal; General Review
     English
LA
RE.CNT 170
              THERE ARE 170 CITED REFERENCES AVAILABLE FOR THIS RECORD
              ALL CITATIONS AVAILABLE IN THE RE FORMAT
L5
     ANSWER 46 OF 154 CAPLUS COPYRIGHT 2004 ACS on STN
ΑN
     2000:824291 CAPLUS
     134:21425
DN
ΤI
     Protection of endogenous therapeutic peptides from peptidase activity
     through conjugation to blood components
ΙN
     Bridon, Dominique P.; Ezrin, Alan M.; Milner, Peter G.; Holmes, Darren L.;
     Thibaudeau, Karen
     Conjuchem, Inc., Can.
PA
S0
     PCT Int. Appl., 733 pp.
     CODEN: PIXXD2
DT
     Patent
LA
    English
FAN.CNT 3
    PATENT NO.
                          KIND
                                  DATE
                                               APPLICATION NO.
                                                                        DATE
                                                ------
PΙ
    wo 2000069900
                           Α2
                                  20001123
                                                                        20000517 <--
                                               WO 2000-US13576
    wo 2000069900
                           Α3
                                  20010215
```

```
20020704
   wo 2000069900
                           C2
            AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU,
            CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM,
             AZ, BY, KG, KZ, MD, RU, TJ, TM
        RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE,
             DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,
             CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
                                  20001123
   wo 2000070665
                           A2
                                                WO 2000-IB763
                                                                          20000517 <--
   wo 2000070665
                           Α3
                                  20010419
            AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU,
                DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL,
                          KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI,
            IN, IS,
                     JP,
            MD, MG, MK, MN,
                                                                   SD, SE, SG, SI,
            SK, SL,
                     TJ,
                          TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW
        RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AM, AZ, BY, KG,
            MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE,
            IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML,
            MR, NE, SN, TD,
                              TG
   EP 1105409
                                  20010613
                                               EP 2000-936023
                           Α2
                                                                          20000517
        R:
            AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, LT, LV,
                              FI, RO
   EP 1171582
                           Α2
                                  20020116
                                                EP 2000-929748
                                                                          20000517
        R:
            AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
            IE, SI, LT, LV,
                              FI, RO
   EP 1264840
                                  20021211
                           Α1
                                                EP 2002-14617
            AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
                              FI, RO, MK, CY, AL
             IE, SI, LT, LV,
   JP 2003500341
                                  20030107
                           T2
                                                JP 2000-619018
                                                                          20000517
      2003508350
                           T2
                                  20030304
                                                JP 2000-618316
                                                                          20000517
   AU 765753
                           В2
                                  20030925
                                                AU 2000-51393
                                                                          20000517
   us 6514500
                           в1
                                  20030204
                                                US 2000-657332
                                                                          20000907
   ZA 2001006676
                                  20020719
                           Α
                                                ZA 2001-6676
                                                                          20010814
   ZA 2001009110
                                  20020613
                                                ZA 2001-9110
                                                                          20011105
   US 2003108567
                                  20030612
                           Α1
                                                US
                                                   2002-287892
                                                                          20021104
   US 2003108568
                           Α1
                                  20030612
                                                   2002-288340
                                                US
                                                                          20021104
   US 2004127398
                           Α1
                                  20040701
                                                US 2003-722733
                                                                          20031125
   US 2004138100
                           Α1
                                  20040715
                                                us 2003-723099
                                                                          20031125
RAI US 1999-134406P
                           Ρ
                                  19990517
      1999-153406P
   US
                           Р
                                  19990910
   US
       1999-159783P
                           Ρ
                                  19991015
      2000-932570
                                  20000517
   EΡ
                           Α3
      2000-IB763
   WO
                           W
                                  20000517
   WO 2000-US13576
                           W
                                  20000517
   US 2000-623548
                           A1
                                  20000905
   US 2000-657332
                                  20000907
                           Α3
   US 2002-288340
                           A1
                                  20021104
   ANSWER 47 OF 154 CAPLUS
                                COPYRIGHT 2004 ACS on STN
   2000:769294 CAPLUS
   134:37111
   Feeding regulatory factors and reproductive function
   Irahara, Minoru
   Department of Obstetrics and Gynecology, The University of Tokushima
   School of Medicine, Tokushima, Japan
   Nippon Sanka Fujinka Gakkai Zasshi (
                                              ***2000*** ), 52(8), 1215-1221
   CODEN: NISFAY; ISSN: 0300-9165
   Nippon Sanka Fujinka Gakkai
   Journal; General Review
   Japanese
   ANSWER 48 OF 154 CAPLUS COPYRIGHT 2004 ACS ON STN
   2000:753204 CAPLUS
   134:260755
   The future of obesity treatment
   Wilding, John
   University Hospital Aintree, Liverpool, L9 7AL, UK EXS ( ***2000*** ), 89, 181-191
                        ), 89, 181-191
   CODEN: EXSEE7; ISSN: 1023-294X
   Birkhaeuser Verlag
   Journal; General Review
   English
             THERE ARE 37 CITED REFERENCES AVAILABLE FOR THIS RECORD
.CNT 37
```

ALL CITATIONS AVAILABLE IN THE RE FORMAT

```
ANSWER 49 OF 154 CAPLUS COPYRIGHT 2004 ACS on STN
     2000:669754
                      CAPLUS
     133:348631
     A mutation in case of early onset narcolepsy and a generalized absence of ***hypocretin*** peptides in ***human*** narcoleptic brains
Ī
     Peyron, Christelle; Farago, Juliette; Rogers, William; Ripley, Beth; Overeem, Sebastiaan; Charnay, Yves; Nevsimalova, Sona; Aldrich, Michael; Reynolds, David; Albin, Roger; Li, Robin; Hungs, Marcel; Pedrazzoli,
١U
     Mario; Padigaru, Muralidhara; Kucherlapati, Mēlanie; Fan, Jun; Maki,
     Richard; Lamers, Gert Jan; Bouras, Constantin; Kucherlapati, Raju;
     Nishino, Seiji; Mignot, Emmanuel
Cent. Narcolepsy, Stanford Univ. Med. Sch., Stanford, CA, 94305-5485, USA
Nature Medicine (New York) ( ***2000*** ), 6(9), 991-997
CODEN: NAMEFI; ISSN: 1078-8956
0
     Nature America Inc.
     Journal
T
     English
        38
                 THERE ARE 38 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE.CNT
                 ALL CITATIONS AVAILABLE IN THE RE FORMAT
     ANSWER 50 OF 154 CAPLUS COPYRIGHT 2004 ACS ON STN
     2000:573794 CAPLUS
١N
     133:177102
N
     Preparation of phenyl ureas and thioureas as ***orexin*** ***receptor*** antagonists
Ί
                                                                  ***human***
     Coulton, Steven; Johns, Amanda; Porter, Roderick Alan
     Smithkline Beecham Plc, UK
Α
     PCT Int. Appl., 28 pp.
0
     CODEN: PIXXD2
T
     Patent
     English
.Α
AN.CNT 1
     PATENT NO.
                               KIND
                                         DATE
                                                        APPLICATION NO.
                                                                                        DATE
ÌΙ
     WO · 2000047580
                                Α2
                                         20000817
                                                         WO 2000-EP1142
                                                                                        20000210 <--
     wo 2000047580
                                Α3
                                         20001221
               AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA,
                MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI,
                SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM,
                AZ, BY, KG, KZ, MD, RU, TJ, TM
          RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

144409 A2 20011017 EP 2000-907553 20000210
     EP 1144409
                AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
                IE, SI, LT, LV, FI, RO
     JP 2002536447
                                 T2
                                         20021029
                                                         JP 2000-598500
                                                                                        20000210
     US 6596730
                                 в1
                                         20030722
                                                         US 2001-913228
                                                                                        20011205
RAI GB 1999-3241
                                         19990212
     GB 1999-26441
                                         19991108
     WO 2000-EP1142
                                 W
                                         20000210
S
     MARPAT 133:177102
     ANSWER 51 OF 154 CAPLUS COPYRIGHT 2004 ACS ON STN
     2000:573791 CAPLUS
     133:164009
Ι
     Preparation of phenyl ureas and thioureas as ***orexin***
        ***receptor***
                             antagonists
     Coulton, Steven; Johns, Amanda; Porter, Roderick Alan
Ν
     Smithkline Beecham Plc, UK
0
     PCT Int. Appl., 45 pp.
     CODEN: PIXXD2
     Patent
    English
AN.CNT 1
     PATENT NO.
                               KIND
                                                        APPLICATION NO.
                                         DATE
                                                                                       DATE
Ι
    wo 2000047577
                                Α1
                                         20000817
                                                        WO 2000-EP1150
                                                                                       20000210 <--
               AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU,
               CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL,
               IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA,
               MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM,
```

```
AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

150977

A1 20011107 EP 2000-906324 20000210
     EP 1150977
     EP 1150977
                               В1
                                      20040825
               AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
               IE, SI, LT, LV, FI, RO
                                      20021029
                                                    JP 2000-598497
      JP 2002536445
                                                                                20000210
                              T2
     AT 274512
                                      20040915
                                                    AT 2000-906324
                                                                                20000210
                               Ε
     us 6699879
                              в1
                                      20040302
                                                    US 2002-913236
                                                                                20020429
                                      19990212
PRAI GB 1999-3266
                              Α
     GB 1999-26430
                                      19991108
                               Α
     WO 2000-EP1150
                               W
                                      20000210
     MARPAT 133:164009
                THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE.CNT 7
                ALL CITATIONS AVAILABLE IN THE RE FORMAT
L<sub>5</sub>
      ANSWER 52 OF 154 CAPLUS COPYRIGHT 2004 ACS ON STN
ΑN
      2000:573790 CAPLUS
      133:177112
DN
                                                        ***orexin*** -1
      Preparation of cinnamide derivatives as
TI
        ***receptors*** antagonists
ΙN
      Johns, Amanda; Porter, Roderick Alan
      Smithkline Beecham Plc, UK
PA
      PCT Int. Appl., 29 pp.
S<sub>0</sub>
      CODEN: PIXXD2
DT
      Patent
      English
LΑ
FAN.CNT 1
                              KIND
                                      DATE
                                                                                DATE
      PATENT NO.
                                                    APPLICATION NO.
     wo 2000047576
                               Α1
                                      20000817
                                                    WO 2000-EP1148
                                                                                20000210 <--
PΙ
          W: CA, JP, US
          RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,
               PT, SE
PRAI GB 1999-3287
                                      19990212
      GB 1999-3288
                                      19990212
      MARPAT 133:177112
                THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE.CNT
                ALL CITATIONS AVAILABLE IN THE RE FORMAT
L5
      ANSWER 53 OF 154 CAPLUS COPYRIGHT 2004 ACS on STN
      2000:547968 CAPLUS
ΑN
DN
      133:250401
            ***hypocretin*** / ***orexin***
                                                        ligand- ***receptor***
ΤI
      The
      system: implications for sleep and sleep disorders Kilduff, T. S.; Peyron, C.
ΑU
CS
      SRI International, Molecular Neurobiology Laboratory, Menlo Park, CA,
      94025, USA
      Trends in Neurosciences ( ***2000*** ), 23(8), 359-365
so
      CODEN: TNSCDR; ISSN: 0166-2236
PB
      Elsevier Science Ltd.
DT
      Journal; General Review
LA
      English
L5
      ANSWER 54 OF 154 CAPLUS COPYRIGHT 2004 ACS ON STN
ΑN
      2000:513541 CAPLUS
DN
      133:134167
ΤI
      Vaccine-mediated treatment of neurological disorders
IN
      During, Matthew John
PA
      USA
50
      PCT Int. Appl., 101 pp.
      CODEN: PIXXD2
DT
      Patent
      English
LA
FAN.CNT 1
      PATENT NO.
                              KIND
                                                    APPLICATION NO.
                                                                                DATE
                                      DATE
PΙ
      wo 2000043039
                              Α1
                                      20000727
                                                    wo 2000-US2016
                                                                                20000124 <--
               AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU,
               CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL,
               IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
```

```
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG 2000-2361124 20000124
     CA 2361124
                                                                           20000124 <--
                                    20011024
                                                EP 2000-907047
     EP 1146898
                             Α1
                                                                           20000124
              AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
          R:
              IE, SI, LT, LV, FI, RO
     JP 2002535289
                                   20021022
                                                 JP 2000-594492
                             T2
                                                                           20000124
     us 2004131596
                             Α1
                                    20040708
                                                 us 2004-776780
                                                                           20040210
PRAI US 1999-116748P
                                   19990122
                             Α2
     US 1999-127142P
                             Α2
                                   19990331
     US 2000-491896
                                   20000124
                             Α3
     wo 2000-US2016
                                   20000124
RE.CNT 8
               THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD
               ALL CITATIONS AVAILABLE IN THE RE FORMAT
L5
     ANSWER 55 OF 154 CAPLUS COPYRIGHT 2004 ACS on STN
     2000:507556 CAPLUS
ΑN
     133:217929
DN
        ***Orexin*** -induced hyperlocomotion and stereotypy are mediated by
ΤI
     the dopaminergic system
     Nakamura, T.; Uramura, K.; Nambu, T.; Yada, T.; Goto, K.; Yanagisawa, M.;
ΑU
     Sakurai, T.
     Institute of Basic Medical Sciences, Department of Pharmacology,
CS
     University of Tsukuba, Tsukuba, Ibaraki, 305-8575, Japan Brain Research ( ***2000*** ), 873(1), 181-187
SO
     CODEN: BRREAP; ISSN: 0006-8993
PB
     Elsevier Science B.V.
DT
     Journal
LA
     English
RE.CNT
        24
               THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD
               ALL CITATIONS AVAILABLE IN THE RE FORMAT
     ANSWER 56 OF 154 CAPLUS COPYRIGHT 2004 ACS ON STN
L5
     2000:284343 CAPLUS
ΑN
DN
     133:38334
     Control of food intake via leptin ***receptors***
ΤI
                                                                  in the hypothalamus
ΔIJ
     Meister, Bjorn
CS
     Department of Neuroscience, Karolinska Institutet, Stockholm, S-171 77,
     Vitamins and Hormones (San Diego) ( ***2000*** ), 59, 265-304
SO
     CODEN: VIHOAQ; ISSN: 0083-6729
PR
     Academic Press
DT
     Journal; General Review
     English
LA
RE.CNT
        151
               THERE ARE 151 CITED REFERENCES AVAILABLE FOR THIS RECORD
               ALL CITATIONS AVAILABLE IN THE RE FORMAT
     ANSWER 57 OF 154 CAPLUS COPYRIGHT 2004 ACS on STN
L5
     2000:264439 CAPLUS
ΑN
DN
     133:26938
TI
     Structure-activity relationship studies on the novel neuropeptide
        ***orexin***
ΑU
     Asahi, Shuichi; Egashira, Shin-Ichiro; Matsuda, Masao; Iwaasa, Hisashi;
     Kanatani, Akio; Ohkubo, Mitsuru; Ihara, Masaki; Sakurai, Takeshi;
     Morishima, Hajime
CS
     Banyu Tsukuba Research Institute in collaboration with Merck Research
     Laboratories, Tsukuba, 300-2611, Japan
Peptide Science ( ***1999*** ), 36th, 37-40
SO
     CODEN: PSCIFQ; ISSN: 1344-7661
PB
     Japanese Peptide Society
     Journal
DT
     English
LA
RE.CNT
        10
               THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD
               ALL CITATIONS AVAILABLE IN THE RE FORMAT
L5
     ANSWER 58 OF 154 CAPLUS COPYRIGHT 2004 ACS on STN
ΑN
     2000:247790 CAPLUS
     132:277281
DN
TI
     Canine narcolepsy
ΑU
     Kadotani, Hiroshi
CS
     Sleep Disorders Cent., Stanford Univ., 1201 Welch Road, MSLS, P126,
     Stanford, CA, 94305, USA
No no Kagaku ( ***2000***
                                    ), 22(4), 465-468
SO
     CODEN: NNOKFZ; ISSN: 1343-4144
     Seiwa Shoten
PB
```

```
Journal; General Review
DT
     Japanese
LA
L5
     ANSWER 59 OF 154 CAPLUS COPYRIGHT 2004 ACS on STN
     1999:795994 CAPLUS
ΑN
     132:31744
DN
     Gene probes used for genetic profiling in healthcare screening and
TT
     planning
IN
     Roberts, Gareth Wyn
     Genostic Pharma Ltd., UK
PA
     PCT Int. Appl., 745 pp.
SO
     CODEN: PIXXD2
DT
     Patent
     English
LA
FAN.CNT 2
                                                  APPLICATION NO.
                            KIND
      PATENT NO.
                                     DATE
                                                                             DATE
     wo 9964627
                             Α2
                                     19991216
                                                  wo 1999-GB1780
                                                                             19990604 <--
PΙ
               AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ,
               DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS,
               JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK,
                   MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ,
               MD, RU,
                        TJ,
                            TM
          RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG,
               CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
PRAI GB 1998-12099
                                     19980606
                             Α
      GB 1998-13291
                                     19980620
                              Α
      GB 1998-13611
                              Α
                                     19980624
      GB 1998-13835
                              Α
                                     19980627
      GB 1998-14110
                                     19980701
                              Α
      GB 1998-14580
                              Α
                                     19980707
      GB 1998-15438
                                     19980716
                              Α
      GB 1998-15574
                                     19980718
      GB 1998-15576
                                     19980718
                              Α
                                     19980724
      GB 1998-16085
                              Α
      GB 1998-16086
                              Α
                                     19980724
      GB 1998-16921
                              Α
                                     19980805
      GB 1998-17097
                              Α
                                     19980807
      GB 1998-17200
                              Α
                                     19980808
      GB 1998-17632
                              Α
                                     19980814
      GB 1998-17943
                              Α
                                     19980819
L5
      ANSWER 60 OF 154 CAPLUS COPYRIGHT 2004 ACS ON STN
      1999:795993 CAPLUS
ΑN
      132:31743
DN
TT
      Gene probes used for genetic profiling in healthcare screening and
      planning
IN
      Roberts, Gareth Wyn
PA
      Genostic Pharma Limited, UK
SO
      PCT Int. Appl., 149 pp.
      CODEN: PIXXD2
DT
      Patent
LA
      English
FAN.CNT 2
      PATENT NO.
                             KIND
                                     DATE
                                                  APPLICATION NO.
                                                                             DATE
PΙ
      wo 9964626
                              Α2
                                     19991216
                                                  WO 1999-GB1779
                                                                             19990604 <--
               AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ,
               DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS,
               JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK,
                  MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ,
               MN,
               TM,
                   RU,
               MD,
                        TJ,
                            TM
               GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG,
          RW: GH, GM,
                   CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
                                                   CA 1999-2330929
      CA 2330929
                                     19991216
                              AA
                                                                             19990604 <--
     AU 9941586
                              A1
                                     19991230
                                                  AU 1999-41586
                                                                             19990604 <--
     AU 766544
                              В2
                                     20031016
     AU 9941587
                              Α1
                                     19991230
                                                  AU 1999-41587
                                                                             19990604 <--
     GB 2339200
                              Α1
                                     20000119
                                                  GB 1999-12914
                                                                             19990604 <--
         2339200
      GB
                              В2
                                     20010912
         1084273
                              Α1
                                     20010321
                                                  EP 1999-925207
                                                                             19990604
          R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
```

```
JP 2003528564
                             T2
                                    20030930
                                                  JP 2000-553616
                                                                            19990604
                                    20031023
                                                  us 2002-206568
     us 2003198970
                             Α1
                                                                            20020729
PRAI GB 1998-12098
                                    19980606
                             Α
     GB 1998-28289
                                    19981223
                             Α
     GB 1998-16086
                             Α
                                    19980724
     GB 1998-16921
                                    19980805
     GB 1998-17097
                                    19980807
                             Α
     GB 1998-17200
                                    19980808
                             Α
     GB 1998-17632
                             Α
                                    19980814
     GB 1998-17943
                                    19980819
     us 1999-325123
                             В1
                                    19990603
     wo 1999-GB1779
                                    19990604
L5
     ANSWER 61 OF 154 CAPLUS COPYRIGHT 2004 ACS on STN
     1999:571534 CAPLUS
ΑN
     131:284870
DN
     Narcolepsy in ***orexin***
                                        knockout mice: molecular genetics of sleep
TI
     regulation
ΑU
     Chemelli, Richard M.; Willie, Jon T.; Sinton, Christopher M.; Elmquist,
     Joel K.; Scammell, Thomas; Lee, Charlotte; Richardson, James A.; Williams,

    Clay; Xiong, Yumei; Kisanuki, Yaz; Fitch, Thomas E.; Nakazato,

     Masamitsu; Hammer, Robert E.; Saper, Clifford B.; Yanagisawa, Masashi
     Howard Hughes Medical Institute Department of Molecular Genetics
CS
     Department of Pediatrics, University of Texas Southwestern Medical Center at Dallas, Dallas, TX, 75235-9050, USA Cell (Cambridge, Massachusetts) ( ***1999*** ), 98(4), 437-451
SO
     CODEN: CELLB5; ISSN: 0092-8674
     Cell Press
PB
DT
     Journal
     English
LA
RE.CNT
        54
                THERE ARE 54 CITED REFERENCES AVAILABLE FOR THIS RECORD
                ALL CITATIONS AVAILABLE IN THE RE FORMAT
L5
     ANSWER 62 OF 154 CAPLUS COPYRIGHT 2004 ACS on STN
     1999:566074 CAPLUS
ΑN
     131:194807
DN
     Insulinotropic N-terminally truncated GLP-1 lipophilic derivatives with
ΤI
     protracted action
ΙN
     Knudsen, Liselotte Bjerre; Huusfeldt, Per Olaf
     Novo Nordisk A/s, Den.
PΑ
SO
     PCT Int. Appl., 50 pp.
     CODEN: PIXXD2
DT
     Patent
     English
IΑ
FAN CNT 12
     PATENT NO.
                            KIND
                                    DATE
                                                 APPLICATION NO.
                                                                            DATE
PΙ
     wo 9943705
                             Α1
                                    19990902
                                                 WO 1999-DK81
                                                                            19990225 <---
              AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP,
              KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN,
              MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM,
              TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ,
          RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK,
              ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

05 A1 19990915 AU 1999-26105 19990225
     AU 9926105
                                                                            19990225 <--
     EP 1056774
                                                  EP 1999-906075
                             Α1
                                    20001206
                                                                            19990225 <--
              AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, FI
508162 T2 20020319 JP 2000-533455 19990225
     JP 2002508162 T2
PRAI DK 1998-264
                                    19980227
     DK 1998-509
                                    19980408
     WO 1999-DK81
                                    19990225
0S
     MARPAT 131:194807
RE.CNT
               THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD
               ALL CITATIONS AVAILABLE IN THE RE FORMAT
     ANSWER 63 OF 154 CAPLUS COPYRIGHT 2004 ACS on STN
L5
     1999:404816 CAPLUS
AN
     131:68557
DN
     Methods of treatment of behavioral and metabolic disorders using novel
ΤI
     ligands of the neuropeptide
                                       ***receptor***
                                                         HGFAN72 and agonists or
     antagonists thereof
     Hagan, James J.; Kennett, Guy A.; Patel, Saraswati R.; Piper, David;
ΙN
     Smith, Martin I ; Terrett, Jonathan A.; Upton, Neil
```

```
SmithKline Beecham PLC, UK
S0
     PCT Int. Appl., 68 pp.
     CODEN: PIXXD2
DT
     Patent
     English
LA
FAN.CNT 1
     PATENT NO.
                          KIND
                                 DATE
                                              APPLICATION NO.
                                                                      DATE
PΙ
     wo 9930670
                                 19990624
                           Α2
                                              WO 1998-IB2143
                                                                      19981215 <--
     wo 9930670
                           Α3
                                 19990819
         W:
         RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,
             PT, SE
     EP 1037655
                           Α2
                                 20000927
                                              EP 1998-964566
                                                                       19981215 <--
     EP 1037655
                           В1
                                 20040303
             BE, CH, DE, DK, FR, GB, IT, LI, NL
087801 A1 20030508 US
     US 2003087801
                                              us 1998-211823
                                                                       19981215
     us 6664229
                           В2
                                 20031216
     JP 2003527302
                           T2
                                 20030916
                                              JP 2000-538655
                                                                      19981215
PRAI US 1997-69459P
                                 19971215
                           Р
     US 1997-69785P
                                 19971216
     WO 1998-IB2143
                           W
                                 19981215
     ANSWER 64 OF 154 CAPLUS COPYRIGHT 2004 ACS ON STN
     1999:90461
ΑN
                 CAPLUS
DN
     130:149584
TI
     sequence and therapeutic applications for cDNA clone my1 that encodes a
                                             ***receptor***
             ***human***
                           7-transmembrane
ΙN
     Yanagisawa, Masashi
PΑ
     SmithKline Beecham Corporation, USA
S0
     Eur. Pat. Appl., 23 pp.
     CODEN: EPXXDW
DT
     Patent
    English
LA
FAN.CNT 1
     PATENT NO.
                          KIND
                                 DATE
                                              APPLICATION NO.
                                                                      DATE
PΙ
    EP 893498
                           Α2
                                 19990127
                                              EP 1998-305765
                                                                      19980723 <--
     EP 893498
                          Α3
                                 20000126
             AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, LT, LV, FI, RO
     US 6166193
                                 20001226
                                              US 1998-119788
                                                                      19980721 <--
     CA 2238655
                                 19990125
                           AA
                                              CA 1998-2238655
                                                                      19980723 <--
        11178588
                          A2
                                 19990706
                                              JP 1998-242457
                                                                      19980724 <--
     US
        2003083466
                                 20030501
                           Α1
                                              US 2002-282717
                                                                      20021028
PRAI US
       1997-53790P
                                 19970725
    US 1998-119788
                           Α3
                                 19980721
    US 2000-676625
                           Α1
                                 20001002
L5
    ANSWER 65 OF 154 CAPLUS COPYRIGHT 2004 ACS ON STN
     1998:414800 CAPLUS
AΝ
DN
     129:77033
TI
    Novel ligands for the G protein-coupled neuropeptide
                                                               ***receptor***
    HFGAN72 and cDNAs encoding them
ΙN
    Bergsma, Derk J.; Brooks, David P.; Gellai, Miklos; Yanagisawa, Masashi;
    Wilson, Shelagh
PA
    Smithkline Beecham Corp., USA; Smithkline Beecham Plc
    Eur. Pat. Appl., 35 pp.
    CODEN: EPXXDW
    Patent
LA
    English
FAN.CNT 2
    PATENT NO.
                         KIND
                                 DATE
                                              APPLICATION NO.
                                                                      DATE
ΡI
    EP 849361
                          A2
                                 19980624
                                              EP 1997-310216
                                                                      19971217 <--
    EP 849361
                                 20000419
                          Α3
             AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO
    US 6001963
                                 19991214
                                              us 1997-938548
                                                                      19970926 <--
    US 6309854
                          в1
                                 20011030
                                              US 1997-939093
                                                                      19970926
PRAI US 1996-33604P
                                 19961217
    US 1997-820519
                          Α
                                 19970319
    US 1997-887382
                          Α
                                 19970702
    us 1997-939093
                          Α
                                 19970926
    ANSWER 66 OF 154 CAPLUS COPYRIGHT 2004 ACS on STN
_5
```

PΑ

```
1998:182002 CAPLUS
AΝ
DN
     129:63410
                                ***Orexin***
                                                    ***Receptors*** : A Family of
TI
        ***Orexins***
                         and
     Hypothalamic Neuropeptides and G Protein-Coupled ***Receptors*** t
Regulate Feeding Behavior. [Erratum to document cited in CA128:290571]
Sakurai, Takeshi; Amemiya, Akira; Ishii, Makoto; Matsuzaki, Ichiyo;
Chemelli, Richard M.; Tanaka, Hirokazu; Williams, S. Clay; Richardson,
James A.; Kozlowski, Gerald P.; Wilson, Shelagh; Arch, Jonathan R. S.;
ΑU
     Buckingham, Robin E.; Haynes, Andrea C.; Carr, Steven A.; Annan, Roland
     S.; McNulty, Dean E.; Liu, Wu-Schyong; Terrett, Jonathan A.; Elshourbagy,
     Nabil A.; Bergsma, Derk J.; Yanagisawa, Masashi
     Howard Hughes Medical Institute, Department of Molecular Genetics,
CS
     University of Texas Southwestern Medical Center at Dallas, Dallas, TX,
     75235-9050, USA
     Cell (Cambridge, Massachusetts) ( ***1998*** ), 92(5), No pp. Given
S0
     CODEN: CELLB5; ISSN: 0092-8674
PR
     Cell Press
DT
     Journal
     English
LA
L5
     ANSWER 67 OF 154 CEN COPYRIGHT 2001 ACS ON STN
ΑN
     1999:2064 CEN
TI
     Appetite-regulating peptide linked to sleep disorder
     Chemical & Engineering News, ( ***9 Aug 1999*** ) Vol. 77, No. 32, pp.
S0
     CODEN: CENEAR, ISSN: 0009-2347.
PB
     American Chemical Society
     English
LA
WC
L5
     ANSWER 68 OF 154 CIN COPYRIGHT 2004 ACS on STN
ΑN
     28(34):34208s CIN
TI
     Appetite-regulating peptide linked to sleep disorder
     Chem. Mark. Rep., 9 Aug 1999 (19990809), 256(6), p. 27. ISSN: 0009-2347;
S0
     CODEN: CMREF6.
     English
LA
L5
      ANSWER 69 OF 154 DGENE COPYRIGHT 2004 The Thomson Corp on STN
ΑN
      AAB07426 Protein
                                  DGENE
      Novel polynucleotide encoding G protein coupled
TI
                                                              ***receptor***
      useful for producing recombinant cell lines for discovering therapeutic
      agents that modulate the ***receptor***
                                                        activity -
      Zāstawny R L
IN
       (ALLX)
                    ALLELIX BIOPHARMACEUTICALS INC.
PA
        ***CA 2284857
ΡI
                          A1 20000416
                                                           59p***
      CA 1999-2284857
ΑI
                              19991015
PRAI
      US 1998-104514
                              19981016
      US 1998-173565
                              19981016
DT
      Patent
      English
LA
os
      2000-491457 [44]
CR
      N-PSDB: AAA57839
DESC
      Amino acid sequence of a
                                   ***human***
                                                     Α4
                                                           ***receptor***
      polypeptide.
L5
      ANSWER 70 OF 154 DGENE COPYRIGHT 2004 The Thomson Corp on STN
                                 DGENE
* ***receptor***
AΝ
      AAB21212 peptide
                  ***orexin***
TI
                                                          antagonist for treating
      disorders associated with neuronal degeneration resulting from ischemic
      events, nausea and vomiting, irritable bowel syndrome or other conditions
      associated with visceral pain -
ΙN
      Irving E A; Sanger G J
PΑ
                    SMITHKLINE BEECHAM PLC.
        ***WO 2000047284 A2 20000817
PΙ
                                                           10p***
      WO 2000-EP1147
ΑI
                              20000210
PRAI
      GB 1999-3265
                              19990212
      GB 1999-3278
                              19990212
      GB 1999-3282
                              19990212
      GB 1999-3284
                              19990212
      GB 1999-6061
                              19990317
DT
      Patent
LA
      English
      2000-532977 [48]
วร
        ***Human***
                           ***orexin*** -A.
DESC
```

```
L5
      ANSWER 71 OF 154 DGENE COPYRIGHT 2004 The Thomson Corp on STN
ΑN
      AAB21211 peptide
                                DGENE
      New N-(1,5-naphthyridin-4-yl)-N'-phenylurea derivatives, used to treat
ΤI
      e.g. obesity, diabetes, sleep disorders, pain, migraine, heart and lung
      diseases, depression, schizophrenia, addictions and sexual dysfunction,
            ***orexin***
                           -1 antagonists ·
      Coulton S; Johns A; Porter Ř A
ΙN
PΑ
      (SMIK)
                   SMITHKLINE BEECHAM PLC.
        ***WO 2000047580 A2 20000817
PΙ
                                                        28p***
AΙ
      WO 2000-EP1142
                             20000210
      GB 1999-3241
PRAI
                             19990212
      GB 1999-26441
                             19991108
DΤ
      Patent
      English
ŀΑ
      2000-515054 [46]
        ***Human***
                         ***orexin*** -A.
DESC
L5
      ANSWER 72 OF 154 DGENE COPYRIGHT 2004 The Thomson Corp on STN
      AAB21210 peptide
                                DGENE
ΑN
ΤI
      Use of new and known N-phenyl-N'-(4-quinolinyl)urea derivatives, used to
      treat e.g. obesity, diabetes, sleep disorders, pain, migraine, heart and lung disorders, depression and addictions are ***orexin*** -1
      antagonists -
ΙN
      Coulton S; Johns A; Porter R A
                   SMITHKLINE BEECHAM PLC.
PΑ
      (SMIK)
PΙ
        ***WO 2000047577 A1 20000817
                                                        45p***
      WO 2000-EP1150
AΙ
                             20000210
PRAI
      GB 1999-3266
                             19990212
      GB 1999-26430
                             19991108
DT
      Patent
LΑ
      English
      2000-515053 [46]
วร
                         ***orexin*** -A.
DESC
        ***Human***
      ANSWER 73 OF 154 DGENE COPYRIGHT 2004 The Thomson Corp on STN
L5
      AAB21209 peptide
٩N
                                DGENE
      New N-(quinolin-4-yl)-acrylamide derivatives, used to treat e.g. obesity,
ΤI
      diabetes, prolactinoma, dwarfism, sleep disorders, narcolepsy, insomnia, heart and lung diseases and depression, are ***orexin*** -1
                                                       ***orexin***
      antagonists -
ΙN
      Johns A; Porter R A
PA
      (SMIK)
                   SMITHKLINE BEECHAM PLC.
PΙ
        ***WO 2000047576 A1 20000817
                                                        29p***
     WO 2000-EP1148
٩I
                            20000210
PRAI
     GB 1999-3287
                            19990212
      GB 1999-3288
                            19990212
TC
      Patent
      English
∟A
วร
      2000-506092 [45]
                         ***orexin*** -A.
DESC
        ***Human***
     ANSWER 74 OF 154
                        DGENE COPYRIGHT 2004 The Thomson Corp on STN
٩N
     AAA57846 DNA
                           DGENE
ΓI
     Novel polynucleotide encoding G protein coupled
                                                           ***receptor***
      useful for producing recombinant cell lines for discovering therapeutic
                                   ***receptor***
      agents that modulate the
                                                     activity -
ĹΝ
     Zastawny R L
РΑ
      (ALLX)
                  ALLELIX BIOPHARMACEUTICALS INC.
PΙ
        ***CA 2284857
                          A1 20000416
                                                        59p***
Ί
      CA 1999-2284857
                            19991015
PRAI
     US 1998-104514
                            19981016
     US 1998-173565
                            19981016
TC
     Patent
_A
     English
วร
     2000-491457 [44]
DESC
     PCR primer for DNA encoding a
                                      ***human***
                                                             ***receptor***
                                                       Α4
     polypeptide.
     ANSWER 75 OF 154 DGENE COPYRIGHT 2004 The Thomson Corp on STN
١N
     AAA57845 DNA
                           DGENE
     Novel polynucleotide encoding G protein coupled
Π
                                                           ***receptor***
     useful for producing recombinant cell lines for discovering therapeutic
     agents that modulate the
                                   ***receptor***
                                                     activity -
     Zāstawny R L
N
                  ALLELIX BIOPHARMACEUTICALS INC.
Α
     (ALLX)
        ***CA 2284857
                        A1 20000416
                                                       59p***
```

```
CA 1999-2284857
                           19991015
    US 1998-104514
RAI
                           19981016
     us 1998-173565
                           19981016
Т
     Patent
     Enalish
     2000-491457 [44]
S
     PCR primer for DNA encoding a
                                     ***human***
                                                           ***receptor***
                                                     Α4
ESC
     polypeptide.
     ANSWER 76 OF 154 DGENE COPYRIGHT 2004 The Thomson Corp on STN
     AAA57844 DNA
                          DGENE
N
                                                         ***receptor***
     Novel polynucleotide encoding G protein coupled
     useful for producing recombinant cell lines for discovering therapeutic
     agents that modulate the
                                 ***receptor***
                                                   activity -
Ν
     Zastawny R L
                 ALLELIX BIOPHARMACEUTICALS INC.
     (ALLX)
       ***CA 2284857
                         A1 20000416
                                                      59p***
ľ
     CA 1999-2284857
                           19991015
Ι
RAI
     us 1998-104514
                           19981016
     us 1998-173565
                           19981016
Т
     Patent
     English
S
     2000-491457 [44]
     PCR primer for DNA encoding a
                                     ***human***
ESC
                                                     Α4
                                                           ***receptor***
     polypeptide.
     ANSWER 77 OF 154 DGENE COPYRIGHT 2004 The Thomson Corp on STN
     AAA57843 DNA
N
                          DGENE
Ί
     Novel polynucleotide encoding G protein coupled
                                                         ***receptor***
     useful for producing recombinant cell lines for discovering therapeutic
                                 ***receptor***
     agents that modulate the
                                                   activity -
     Zastawny R L
Ά
                  ALLELIX BIOPHARMACEUTICALS INC.
     (ALLX)
                                                      59p***
       ***CA 2284857
ľ
                        A1 20000416
Ι
     CA 1999-2284857
                           19991015
PRAI
     us 1998-104514
                           19981016
     us 1998-173565
                           19981016
т
     Patent
     English
.A
     2000-491457 [44]
S
ESC
     PCR primer for DNA encoding a
                                     ***human***
                                                           ***receptor***
                                                     Α4
     polypeptide.
.5
     ANSWER 78 OF 154 DGENE COPYRIGHT 2004 The Thomson Corp on STN
١N
     AAA57842 DNA
                          DGENE
     Novel polynucleotide encoding G protein coupled ***receptor*** A4, useful for producing recombinant cell lines for discovering therapeutic
Ί
                                ***receptor***
     agents that modulate the
                                                   activity -
N
     Zastawny R L
                  ALLELIX BIOPHARMACEUTICALS INC.
Α
     (ALLX)
       ***CA 2284857
·Ι
                                                      59p***
                       A1 20000416
Ι
     CA 1999-2284857
                           19991015
PRAI
     US 1998-104514
                           19981016
     US 1998-173565
                          19981016
T
     Patent
_A
     English
     2000-491457 [44]
S
     PCR primer for DNA encoding a
ESC
                                     ***human***
                                                     Α4
                                                           ***receptor***
     polypeptide.
     ANSWER 79 OF 154 DGENE COPYRIGHT 2004 The Thomson Corp on STN
     AAA57841 DNA
١N
                          DGENE
I
     Novel polynucleotide encoding G protein coupled
                                                         ***receptor***
     useful for producing recombinant cell lines for discovering therapeutic
     agents that modulate the ***receptor***
                                                   activity -
     Zastawny R L
Ά
                  ALLELIX BIOPHARMACEUTICALS INC.
     (ALLX)
       ***CA 2284857
                                                      59p***
ľ
                         A1 20000416
     CA 1999-2284857
                         . 19991015
ľ
RAI
     US 1998-104514
                           19981016
     us 1998-173565
                           19981016
T
     Patent
     English
     2000-491457 [44]
     PCR primer for DNA encoding a
                                     ***human***
                                                           ***receptor***
ESC
                                                     Α4
     polypeptide.
```

```
ANSWER 80 OF 154 DGENE COPYRIGHT 2004 The Thomson Corp on STN
L5
                          DGENE
      AAA57840 DNA
ΑN
                                                         ***receptor***
      Novel polynucleotide encoding G protein coupled
ΤI
      useful for producing recombinant cell lines for discovering therapeutic
                                 ***receptor***
                                                   activity -
      agents that modulate the
IN
      Zastawny R L
                  ALLELIX BIOPHARMACEUTICALS INC.
      (ALLX)
PA
                                                      59p***
                         A1 20000416
        ***CA 2284857
PΙ
      CA 1999-2284857
                           19991015
AΤ
                           19981016
      us 1998-104514
PRAI
                           19981016
      us 1998-173565
      Patent
DT
      English
LA
      2000-491457 [44]
PCR primer for DNA encoding a
os
                                       ***human***
                                                           ***receptor***
                                                     Α4
DESC
      polypeptide.
      ANSWER 81 OF 154 DGENE COPYRIGHT 2004 The Thomson Corp on STN
L5
      AAA57839 DNA
                           DGENE
AN
                                                         ***receptor***
      Novel polynucleotide encoding G protein coupled
TI
      useful for producing recombinant cell lines for discovering therapeutic
      agents that modulate the ***receptor***
                                                   activity -
      Zastawny R L
IN
                  ALLELIX BIOPHARMACEUTICALS INC.
      (ALLX)
PA
        ***CA 2284857
                         A1 20000416
                                                      59p***
PΙ
                            19991015
      CA 1999-2284857
ΑI
                            19981016
      us 1998-104514
PRAI
      us 1998-173565
                            19981016
DT
      Patent
      English
LA
os
      2000-491457 [44]
      P-PSDB: AAB07426
CR
                       ***human***
                                            ***receptor***
                                                             polypeptide.
                                      Α4
DESC
      DNA encoding a
      ANSWER 82 OF 154 DRUGU COPYRIGHT 2004 THE THOMSON CORP on STN
L5
      1999-10257 DRUGU
ΑN
      Pharmacological treatment of obesity: therapeutic strategies.
ΤI
ΑU
      Kordik C P; Reitz A B
CS
      Johnson+Johnson
LO
      Spring House, Pa., USA
      J.Med.Chem. (42, No. 2, 181-201, 1999) 3 Fig. 3 Tab. 239 Ref.
S0
                          ISSN: 0022-2623
      CODEN: JMCMAR
      Drug Discovery Division, The R.W. Johnson Pharmaceutical Research
ΑV
      Institute, Spring House, Pennsylvania 19477, U.S.A. (e-mail:
      ckordik@prius.jnj.com).
      English
LA
DT
      Journal
      AB; LA; CT
FΑ
FS
      Literature
L5
     ANSWER 83 OF 154 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS
     RESERVED. on STN
     2001041485 EMBASE
ΑN
TT
     The genetics of sleep apnea.
     Redline S.; Tishler P.V.
ΑU
     Dr. S. Redline, Rainbow Babies and Childrens' Hosp., Case Western Reserve
     University, 11100 Euclid Avenue, Cleveland, OH 44106-6003, United States.
     sxr15@po.cwru.edu
     Sleep Medicine Reviews, (2000) 4/6 (583-602).
50
     Refs: 116
     ISSN: 1087-0792 CODEN: SMREFC
CY
     United Kingdom
     Journal; General Review
DT
              Neurology and Neurosurgery
     800
FS
              Chest Diseases, Thoracic Surgery and Tuberculosis
     015
     022
              Human Genetics
     English
     English
SL
     ANSWER 84 OF 154 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS
L5
     RESERVED. on STN
     2000417165
                 EMBASE
AN
     Recent discoveries affecting drug therapy.
TI
     Drug Benefit Trends, (2000)^{-}12/10 (47-52).
S0
```

ISSN: 1080-5826 CODEN: DBTRFN

```
United States
      Journal; Note
DT
                Drug Literature Index
FS
      037
      004
                Microbiology
                Immunology, Serology and Transplantation Public Health, Social Medicine and Epidemiology
      026
      017
      038
                Adverse Reactions Titles
      800
                Neurology and Neurosurgery
                General Pathology and Pathological Anatomy
      005
                Chest Diseases, Thoracic Surgery and Tuberculosis
Cardiovascular Diseases and Cardiovascular Surgery
      015
      018
                Orthopedic Surgery
      033
      030
                Pharmacology
      003
                Endocrinology
                Cancer
      016
                Psychiatry
      032
                Obstetrics and Gynecology
      010
      040
                Drug Dependence, Alcohol Abuse and Alcoholism
      022
                Human Genetics
LA
      English
L5
      ANSWER 85 OF 154 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS
      RESERVED. on STN
      2000414083 EMBASE
ΑN
       [Genetic aspects of sleep disorders].
ΤI
      GENETICKE ASPEKTY PORUCH SPANKU.
      Sonka K.; Nevsimalova S.
ΑIJ
      Dr. K. Sonka, Neurologicka Klinika, I Lekarska Fakulta, UK a VFN,
CS
      Katerinska 30, 120 00 Praha 2, Czech Republic. ksonka@lf1.cuni.cz
Psychiatrie, (2000) 4/SUPPL. 1 (48-53).
SO
      Refs: 62
      ISSN: 1211-7579 CODEN: PCHIF7
      Czech Republic
CY
      Journal; General Review
DT
                Human Genetics
FS
      022
      032
                Psychiatry
LA
      Czech
      English: Czech
SL
L5
      ANSWER 86 OF 154
                             EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS
      RESERVED. on STN
      2000410534 EMBASE
ΑN
      'Neuropeptides 2000'10(th) Annual Meeting of the European Neuropeptide Club, Innsbruck, Austria, May 10-13, 2000, Neuropeptide Antagonists, From Molecular Biology to ***Receptors*** and Clinical Applications,
TI
      Supported by the European Commission DG XII, ***Human*** Potential Programme, High Level Scientific Conferences HPCF-CT-1999-00183: Preface.
      Saria A.; Geppetti P.; Urban L.
ΑU
CS
      A. Saria. alois.saria@uibk.ac.at
      Regulatory Peptides, (22 Dec 2000) 96/1-2 (1).
SO
      Refs: 0
      ISSN: 0167-0115 CODEN: REPPDY
      s 0167-0115(00)00191-9
PUI
CY
      Netherlands
      Journal; Editorial
DT
      029
                Clinical Biochemistry
FS
      003
                Endocrinology
      030
                Pharmacology
                Drug Literature Index
      037
LA
      Enalish
L5
      ANSWER 87 OF 154
                             EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS
      RESERVED. on STN
      2000351213 EMBASE
ΑN
      Obesity: Molecular bases of a multifactorial problem.
Palou A.; Serra F.; Bonet M.L.; Pico C.
A. Palou, Dept. Biol. Fonam. Cien. de la Salut, Universitat de les Illes
Balears, Edifici Guillem Colom de, Ctra. de Valldemossa km. 7.5, 07071
TI
ΑU
CS
      Palma de Mallorca, Spain. dbfapo0@ps.uib.es
      European Journal of Nutrition, (2000) 39/4 (127-144).
SO
      Refs: 196
      ISSN: 1436-6207 CODEN: EJNUFZ
      Germany
      Journal; General Review
DT
      003
                Endocrinology
FS
      005
                General Pathology and Pathological Anatomy
```

```
029
                                       Clinical Biochemistry
                030
                                        Pharmacology
                037
                                       Drug Literature Index
                English
  IΑ
 SL
                English
 L5
                ANSWER 88 OF 154
                                                                     EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS
                RESERVED. on STN
                2000197707 EMBASE
 ΑN
                Patent focus on new anti-obesity agents: September 1999-February 2000.
 TI
 ΑU
                P.A. Carpino, Dept. Cardiovascular Metabolic Dis., MS 8220-3004, Pfizer
 CS
                Central Research, Eastern Point Rd., Groton, CT 06340, United States
                Expert Opinion on Therapeutic Patents, (2000) 10/6 (819-831).
 SO
                Refs: 66
ISSN: 1354-3776 CODEN: EOTPEG
                United Kingdom
 CY
                Journal; General Review
 DT
 FS
                003
                                       Endocrinology
                030
                                       Pharmacology Pharm
                037
                                       Drug Literature Index
                English
 LA
 SL
                English
                ANSWER 89 OF 154
                                                                   EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS
                RESERVED. on STN
 ΑN
                2000178801 EMBASE
 TI
                Pharmacology of appetite suppression.
                Halford J.C.G.; Blundell J.E.
 ΑU
                Dr. J.C.G. Halford, Department of Psychology, University of Liverpool,
 CS
                Liverpool L69 3BX, United Kingdom
 SO
                Progress in Drug Research, (2000) 54/- (25-58).
                Refs: 151
                ISSN: 0071-786X CODEN: FAZMAE
                Switzerland
 CY
 DT
                Journal; General Review
 FS
                003
                                       Endocrinology
                030
                                       Pharmacology Pharm
                037
                                       Drug Literature Index
                038
                                       Adverse Reactions Titles
                English
 LA
 SL
                English
L5
                ANSWER 90 OF 154
                                                                  EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS
                RESERVED. on STN
 ΑN
                2000156813 EMBASE
                Separate systems for serotonin and leptin in appetite control.
 ΤI
 ΑU
               Halford J.C.G.; Blundell J.E.
CS
               Dr. J.C.G. Halford, Department of Psychology, Eleanor Rathbone Building,
               University of Liverpool, Liverpool L69 7ZA, United Kingdom.
                j.c.g.halford@liverpool.ac.uk
               Annals of Medicine, (2000) 32/3 (222-232).
SO
               Refs: 87
                ISSN: 0785-3890 CODEN: ANMDEU
               United Kingdom
CY
DT
                Journal; General Review
FS
               003
                                       Endocrinology
               800
                                      Neurology and Neurosurgery
               029
                                      Clinical Biochemistry
               030
                                      Pharmacology
               037
                                       Drug Literature Index
               English
LA
SL
               English
               ANSWER 91 OF 154
                                                                 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS
               RESERVED. on STN
AN
               2000136660 EMBASE
               Central nervous system control of food intake.
ΤI
ΑU
               Schwartz M.W.; Woods S.C.; Porte D. Jr.; Seeley R.J.; Baskin D.G.
              M.W. Schwartz, Department of Medicine, Harborview Medical Center, University of Washington, Seattle, WA 98104-2499, United States
               Nature, (6 Apr 2000) 404/6778 (661-671).
S0
               Refs: 121
               ISSN: 0028-0836 CODEN: NATUAS
CY
               United Kingdom
               Journal; General Review
DT
```

```
003
              Endocrinology
      800
              Neurology and Neurosurgery
      029
              Clinical Biochemistry
      037
              Drug Literature Index
      English
LA
SL
      English
L5
      ANSWER 92 OF 154
                         EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS
      RESERVED. on STN
ΑN
      2000077573
                  EMBASE
      The controls of eating: Brain meanings of food stimuli.
TI
ΑU
      Smith G.P.
      G.P. Smith, Department of Psychiatry, Joan/Sanford I. Weill Med. College,
CS
      New York-Presbyterian Hospital, 21 Bloomingdale Road, White Plains, NY
      10605, United States. gpsmith@med.cornell.edu
      Progress in Brain Research, (2000) 122/- (173-186).
SO
      Refs: 73
      ISSN: 0079-6123 CODEN: PBRRA4
CY
     Netherlands
DT
      Journal; General Review
FS
      002
              Physiology
     008
              Neurology and Neurosurgery
LA
      English
L5
     ANSWER 93 OF 154 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS
      RESERVED. on STN
ΑN
      2000051986 EMBASE
                                      ***hypocretins***
TI
      [Narcolepsy: A key role for
     NARCOLEPSIE: UN ROLE-CLE DES HYPOCRETINES.
     Billiard M.; Dauvilliers Y.
ΑIJ
CS
     M. Billiard, Service de neurologie B, Hopital Gui-de-Chauliac. 34295
     Montpellier, France
S0
     Medecine/Sciences, (2000) 16/1 (108-110).
     Refs: 16
     ISSN: 0767-0974 CODEN: MSMSE4
      France
DT
      Journal; (Short Survey)
FS
     800
              Neurology and Neurosurgery
     022
              Human Genetics
LA
     French
L5
     ANSWER 94 OF 154 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS
     RESERVED. on STN
ΑN
     2000000868 EMBASE
ΤI
     Peptides crossing the blood-brain barrier: Some unusual observations.
ΑU
     Kastin A.J.; Pan W.; Maness L.M.; Banks W.A.
     A.J. Kastin, VA Medical Center, Tulane University School of Medicine, 1601 Perdido Street, New Orleans, LA 70112-1262, United States Brain Research, (1999) 848/1-2 (96-100).
CS
SO
     Refs: 58
     ISSN: 0006-8993 CODEN: BRREAP
     s 0006-8993(99)01961-7
PUI
     Netherlands
CY
DT
     Journal; General Review
              Physiology
FS
     002
     026
              Immunology, Serology and Transplantation
     029
              Clinical Biochemistry
     003
              Endocrinology
     005
              General Pathology and Pathological Anatomy
     008
              Neurology and Neurosurgery
LA
     English
SL
     English
L5
     ANSWER 95 OF 154
                        EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS
     RESERVED. on STN
     1999377313 EMBASE
ΑN
ΤI
     Regulation of gastric acid secretion.
ΑU
     Schubert M.L.
CS
     Dr. M.L. Schubert, McGuire VAMC, Code 111N, Gastroenterology Division,
     1201 Broad Rock Boulevard, Richmond, VA 23249, United States.
     Mitchell.Schubert@med.va.gov
S0
     Current Opinion in Gastroenterology, (1999) 15/6 (457-462).
     Refs: 44
     ISSN: 0267-1379 CODEN: COGAEK
     United States
CY
DT
     Journal; Article
```

```
005
               General Pathology and Pathological Anatomy
      037
              Drug Literature Index
      048
               Gastroenterology
      English
 SL
      English
L5
      ANSWER 96 OF 154 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS
      RESERVED. on STN
      1999374968 EMBASE
ΑN
        ***Orexins***
                                                  ***receptors*** : Implication in
TI
                         and
                                ***orexin***
      feeding behavior.
      Sakurai T.
ΑU
CS
      Dr. T. Sakurai, Institute of Basic Medical Sciences, University of
      Tsukuba, Tsukuba, Ibaraki 305-8575, Japan. stakeshi@md.tsukuba.ac.jp
SO
      Regulatory Peptides, (1999) 85/1 (25-30).
      Refs: 26
      ISSN: 0167-0115 CODEN: REPPDY
      s 0167-0115(99)00076-2
PUI
      Netherlands
CY
DT
      Journal; General Review
FS
      001
              Anatomy, Anthropology, Embryology and Histology
      002
              Physiology
      003
              Endocrinology
      800
              Neurology and Neurosurgery
      029
              Clinical Biochemistry
      English
LA
SL
      English
L5
      ANSWER 97 OF 154 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS
      RESERVED. on STN
      1999306715 EMBASE
AN
      Narcolepsy and the
                            ***hypocretin***
TI
                                                   ***receptor***
                                                                     2 gene.
     Aldrich M.S.; Reynoldst P.R.
M.S. Aldrich, Department of Neurology, University of Michigan Medical
ΑU
CS
      Sch., University of Michigan Medical Ctr., Ann Arbor, MI 48109, United
      States
S<sub>0</sub>
      Neuron, (1999) 23/4 (625-626).
      ISSN: 0896-6273 CODEN: NERNET
CY
      United States
      Journal: (Short Survey)
DT
              Neurology and Neurosurgery
FS
      800
      022
              Human Genetics
      English.
LA
Ŀ5
      ANSWER 98 OF 154 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS
      RESERVED. on STN
      1999071604 EMBASE
AN
TT
      Interacting appetite-regulating pathways in the hypothalamic regulation of
      body weight.
     Kalra S.P.; Dube M.G.; Pu S.; Xu B.; Horvath T.L.; Kalra P.S.
Dr. P.S. Kalra, Department of Neuroscience, Univ. of Florida College of
ΑU
CS
     Medicine, P.O. Box 100244, Gainesville, FL 32610-0244, United States.
     SKALRA@ufbi.ufl.edu
SO
     Endocrine Reviews, (1999) 20/1 (68-100).
     Refs: 412
     ISSN: 0163-769X CODEN: ERVIDP
CY
     United States
DT
     Journal; General Review
FS
     003
              Endocrinology
     029
              Clinical Biochemistry
LA
     English
SL
     English
L5
     ANSWER 99 OF 154
                        EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS
     RESERVED. on STN
ΑN
     1998285938 EMBASE
       ***Orexins***
TI
                        and anorexins: Thoughts for food.
ΑU
     Meier C.A.
CS
     C.A. Meier, Div. d'Endocrinol. et Diabetologie, Clinique de Medecine II,
     Hopital Cantonal Univ. de Geneve, CH-1211 Geneva, Switzerland
     European Journal of Endocrinology, (1998) 139/2 (148-149).
S0
     Refs: 4
     ISSN: 0804-4643 CODEN: EJOEEP
     Norway
CY
DT
     Journal; (Short Survey)
FS
     003
              Endocrinology
```

```
006
               Internal Medicine
      029
               Clinical Biochemistry
      English
L5
       ANSWER 100 OF 154 Elsevier BIOBASE COPYRIGHT 2004 Elsevier Science B.V.
       on STN
ΑN
       2000164552
                       ESBIOBASE
       Reciprocal relation of food intake and sympathetic activity: Experimental
TI
       observations and clinical implications
ΑU
       Bray G.A.
       G.A. Bray, Pennington Biomedical Research Ctr., 6400 Perkins Road, Baton Rouge, LA 70808, United States.
CS
       International Journal of Obesity, ( ***2000*** ), 24/SUPPL. 2 (S8-S17),
SO
       101 reference(s)
       CODEN: IJOBDP ISSN: 0307-0565
       Journal; Conference Article
DT
       United Kingdom
CY
LA
       English
SL
       English
L5
       ANSWER 101 OF 154 FROSTI COPYRIGHT 2004 LFRA on STN
ΑN
       537492
                FROSTI
          ***Orexins***
ΤI
                           , feeding and the big picture.
ΑU
       Arch J.
SO
       British Journal of Nutrition,
                                            ***2000*** , (October), 84 (4), 401-403
       (24 ref.)
       Published by: CABI Publishing, CAB International. Address: Wallingford, Oxon OX10 8DE, UK. Telephone: +44 (1491) 832111. Fax: +44 (1491)
       829198. Email: publishing@cabi.org Web: http://nutrition.cabweb.org and
       www.nutsoc.org.uk
       ISSN: 0007-1145
DT
       Journal
LA
       English
SL
       English
L5
      ANSWER 102 OF 154
                              GENBANK.RTM. COPYRIGHT 2004 on STN
LOCUS (LOC):
                            SEG_F202078S
                                                GenBank (R)
GenBank ACC. NO. (GBN): AH009943
GenBank VERSION (VER):
                            AH009943.1 GI:11055228
SEQUENCE LENGTH (SQL):
                            4610
MOLECULE TYPE (CI):
                            DNA; linear
DIVISION CODE (CI):
                            Contiguous sequences
DATE (DATE)
                            6 Feb 2001
DEFINITION (DEF):
                                              ***hypocretin***
                            Homo sapiens
                                                                      ***receptor***
                                                                                         -1
                            (HCRTR1) and ***hypocretin*
(HCRTR2) genes, complete cds.
                                             ***hypocretin***
                                                                      ***receptor***
SOURCE:
                              ***human***
                            Homo sapiens
ORGANISM (ORGN):
                            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
                            Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini;
                            Hominidae; Homo
REFERENCE:
                            1 (bases 1 to 4610)
   AUTHOR (AU):
                            Peyron,C.; Faraco,J.; Rogers,W.; Ripley,B.; Overeem,S.;
                           Charnay,Y.; Nevsimalova,S.; Aldrich,M.; Reynolds,D.; Albin,R.; Li,R.; Hungs,M.; Pedrazzoli,M.; Padigaru,M.; Kucherlapati,M.; Fan,J.; Maki,R.; Lammers,G.J.; Bouras,C.; Kucherlapati,R.; Nishino,S.; Mignot,E. A mutation in a case of early onset narcolepsy and a generalized absence of ***hypocretin*** peptides i
   TITLE (TI):
                                                                               peptides in
                              ***human***
                                              narcoleptic brains
   JOURNAL (SO):
                            Nat. Med., 6 (9), 991-997 ( ***2000*** )
   OTHER SOURCE (OS):
                            CA 133:348631
REFERENCE:
                               (bases 1 to 4610)
   AUTHOR (AU):
                           Faraco, J.; Rogers, W.; Overeem, S.; Li, R.; Mignot, E.
   TITLE (TI):
                           Direct Submission
   JOURNAL (SO):
                           Submitted (05-NOV-1999) Center for Narcolepsy Research,
                           Department of Psychiatry, Stanford University Medical
                           Center, 1201 Welch Road, MSLS Bldg. P112, Stanford, CA
                            94305-5485, USA
FEATURES (FEAT):
 Feature Key
                       Location
                                                   Qualifier
                   3452..3667
```

source

		/note="amplify at 58 degrees, R2-ex4-F:	
		TZ-EX4-F. 5`-AAGGTAAATATGCACTTTGAAGAA-3',	
		R2-ex4-R:	
source	10761291	<pre>5`-AAGCACAGACATAATATTTGGAAG-3'" /organism="Homo sapiens"</pre>	
		/db-xref="taxon:9606"	
		/note="amplify at 58 degrees, R1-ex4-F:	
		5`-CTGTCTGTCATGGTGGCTGTATGG-3',	
		R1-ex4-R:	
source	39894210	5`-CTCTCTTTGGTTGCAGCCAAGATG-3'" /organism="Homo sapiens"	
		/db-xref="taxon:9606"	
		/note="amplify at 58 degrees, R2-ex6-F:	
	•	5`-GAGTCAGACCATCCTCTACCAATA-3',	
-		R2-ex6-R:	
source	16191840	<pre>5`-ACTCACATAGCACCTAAACTCCTC-3'" /organism="Homo sapiens"</pre>	
		/db-xref="taxon:9606"	
		/note="amplify at 58 degrees, R1-ex6-F:	
		<pre>5`-TGGGCAGTAGGAACTCTTGCACT-3',</pre>	
		R1-ex6-R: 5`-CAGGTACATCCTCACCCACCATC-3'"	
source	453731	/organism="Homo sapiens"	•
		/db-xref="taxon:9606"	
		<pre>/note="amplify at 58 degrees, R1-ex2-F:</pre>	
		5`-GAAGGGGGTTGTGTGGGAAGAG-3',	
		R1-ex2-R: 5`-ACACTTCAGGGGTCATGAGCCA-3'"	
source	28283107	/organism="Homo sapiens"	
		/db-xref="taxon:9606" /note="amplify at 58 degrees,	
		R2-ex2-F:	
		5`-TGACAGTGTTTCCTCACCAATACC-3',	
		R2-ex2-R: 5`-TCCTTCAGTTTGTCAATGCCTTAG-3'"	
source	36683988	/organism="Homo sapiens"	
		/db-xref="taxon:9606" /note="amplify at 58 degrees,	
		R2-ex5-F:	
		<pre>5`-TCTGGAAGCCTTTCCTTACTGTG-3', R2-ex5-R:</pre>	
		5`-CTTAAAGGCTGTTCGCCTTACC-3'"	
source	12921618	/organism="Homo sapiens"	
		/db-xref="taxon:9606" /note="amplify at 58 degrees,	
		R1-ex5-F:	
	,	<pre>5`-TTTTATCCTTTTGCCCATCTCCAC-3', R1-ex5-R:</pre>	
	733 4077	5`-GGAGGCTCAGAGAAGAGAAATGGC-3'"	
source	7321075	/organism="Homo sapiens" /db-xref="taxon:9606"	
	•	/note="amplify at 58 degrees,	
		R1-ex3-F:	
		5`-CGTCAGCCTCCTCACTCACCTACT-3', R1-ex3-R:	
source	31083451	5`-TGGTAGGAGCCAGTCTAGGGTGTC-3'"	
our cc	31083431	/organism="Homo sapiens" /db-xref="taxon:9606"	
		/note="amplify at 58 degrees,	
		R2-ex-3-F: 5`-TTTTGGCAGCTTTGAATTTGCTTA-3',	
		R2-ex3-R:	
source	18412191	<pre>5`-TCAAGTTGGTTTTCATGCTCTTGC-3'" /organism="Homo sapiens"</pre>	
	TO . T. 1 L T ) T	/db-xref="taxon:9606"	
		/note="amplify at 58 degrees,	
		R1-ex7-F: 5`-CTCATAGGCAGCTTGGCTGGAG-3',	
		R1-ex7-R:	
source	42114610	5`-CCAGAGTCACACAGGCAGAAACC-3'" /organism="Homo sapiens"	
	<del>_</del>	, g Heme suprems	

```
/db-xref="taxon:9606"
                                                   /note="amplify at 58 degrees,
                                                   R2-ex7-F:
                                                   5 -CCCATCTTTGCAAAATATTACACC-3',
                                                   R2-ex7-R:
                                                     -CCTGAAATAAGCTCAATTGAAGGT-3"
                                                   organism="Homo sapiens"
/db-xref="taxon:9606"
source
                    1..452
                                                   note="amplify at 58 degrees,
                                                   R1-ex1-F:
                                                   5 -CCTCCACCAATTTCATGACTGTGA-3',
                                                   R1-ex1-R:
                                                   5 -CAGAGCCACACCCATCCTAGTTCT-3'"
                                                   /organism="Homo sapiens"
/db-xref="taxon:9606"
source
                    2192..2827
                                                   /note="amplify at 58 degrees,
                                                   R2-ex1-F:
                                                   5`-CTTCAGCTTCAGCTCTCCTCA-3',
                                                  R2-ex1-R:
                                                   5`-GAGCAGCGACCTCTTTGTTTGC-3'"
                    1..4610
                                                   /organism="Homo sapiens"
source
                                                   /db-xref="taxon:9606"
CONTIG (CONT):
   join(AF202078.1:1..452,gap(),AF202079.1:1..279,gap(),
AF202080.1:1..344,gap(),AF202081.1:1..216,gap(),AF202082.1:1..327,
gap(),AF202083.1:1..222,gap(),AF202084.1:1..351,gap(),
AF202085.1:1..636,gap(),AF202086.1:1..280,gap(),AF202087.1:1..344,
    gap(), AF202088.1:1..216, gap(), AF202089.1:1..321, gap(),
    AF202090.1:1..222,gap(),AF202091.1:1..400)
      ANSWER 103 OF 154
15
                                GENBANK RTM. COPYRIGHT 2004 on STN
LOCUS (LOC):
                              LMFL6071
                                              GenBank (R)
GenBank ACC. NO. (GBN): AL583933
GenBank VERSION (VER):
                              AL583933.1 GI:13122223
CAS REGISTRY NO. (RN):
                              324731-47-7
SEQUENCE LENGTH (SQL):
                              34156
MOLECULE TYPE (CI):
                              DNA; linear
DIVISION CODE (CI):
                              Invertebrates
DATE (DATE):
                              22 Feb 2001
DEFINITION (DEF):
                              Leishmania major Friedlin chromosome 5 cosmid L6071,
                              PREFINAL.
SOURCE:
                              Leishmania major.
 ORGANISM (ORGN):
                              Leishmania major
                              Eukaryota; Euglenozoa; Kinetoplastida;
                              Trypanosomatidae; Leishmania
NUCLEIC ACID COUNT (NA): 6951 a
                                          10087 c
                                                       10439 q
                                                                    6175 t
                                                                               504 others
COMMENT:
      see http://www.ebi.ac.uk/parasites/leish.html
      Notes:
      Details of leishmania sequencing at the Sanger Centre are available
      on the World Wide Web.
      see http://www.sanger.ac.uk/Projects/L_major/
     CDS are numbered using the following system eg L6071.01. L6071 (cosmid name), .01 (first CDS)

To make the cosmid library Leishmania major Friedlin DNA was partially digested with Sau3AI prior to cloning into BamHI site of the cosmid shuttle vector CLHYG (Ryan et al. 1993 Gene
      131:145-150). The sequence of the packaged vector was determined by
      Peter Myler and Ken Stuart at Seattle Biomedical Research
      Institute, and is available as accession number U59231.
      The more significant matches with motifs in the PROSITE database
      are also included but some of these may be fortuitous. The length
      in codons is given for each CDS.
     Usually the highest scoring match found by fasta -o is given for CDS which show significant similarity to other CDS in the database.
      Gene prediction is done using:
      (1)
     the FramePlot program of Bibb et al.
     Gene 30:157-166(1984) as implemented
     at http://www.nih.go.jp/
     jun/cgi-bin/frameplot.pl. (2)
      codon preference based on the codon usage table for Leishmania at
     http://www.kazusa.or.jp/codon/
```

(3)

```
the Hexamer program which was written by Richard Durbin as an
      integral part of the ACEDB-based analysis tools for the C.elegans
      Genome Sequencing Project. The program calculates the
      log-likelihood score for a given DNA segment based on the frequency
      of 6-mers, normalised for the base-pair composition of the genome. The program was trained using a fasta file of confirmed Leismania major coding sequences (CDS), i.e. from ATG start codon to the stop
      codon.
                   We may not have predicted the correct initiation codon.
      CAUTION:
      Where possible we choose an initiation codon (atg) which is
      preceded by a stretch of pyrimidines or part of a Kozak sequence. If this cannot be identified we choose the most upstream initiation
      codon. Transmembrane domains were predicted as implemented at the
      TMHMM server: http://www.cbs.dtu.dk/services/TMHMM-1.0/
      IMPORTANT: This sequence MAY NOT be the entire insert of the
      sequenced clone. It may be shorter because we only sequence
      overlapping sections once, or longer, because we arrange for a small overlap between neighbouring submissions. Cosmid L6071 is overlapped at the 5' end by L4370 (not sequenced), contains the 'right end' sequences for PACs P719 (AL161399) and P108 (AL160498). P719 links into L7758 (AL352980), while P108 links into L2267 (AL357593). Cosmid L6071 is overlapped in the middle by L6812.2 (to
      be sequenced).
REFERENCE:
                                  (bases 1 to 34156)
    AUTHOR (AU):
                                Ivens,A.C.; Lewis,S.M.; Bagherzadeh,A.; Zhang,L.;
                               Chan, H.M.; Smith, D.F.
                               A physical map of the Leishmania major Friedlin genome
    TITLE (TI):
    JOURNAL (SO):
                               Genome Res.,
                                                8 (2), 135-145 ( ***1998*** )
                               CA 128:266833
2 (bases 1 to 34156)
    OTHER SOURCE (OS):
REFERENCE:
    AUTHOR (AU):
                               Zimmermann, W.; Ivens, A.C.; Quail, M.; Rajandream, M.A.;
                                Barrell, B.G.
                               Direct Submission
   TITLE (TI):
    JOURNAL (SO):
                                Submitted (20-FEB-2001) European Leishmania major
                                Friedlin genome sequencing project, Sanger Centre, The
                               Wellcome Trust Genome Campus, Hinxton, Cambridge CB10
                                1SA, (E-mail: barrell@sanger.ac.uk) and Agowa GmbH,
                                Glienickerweg 185, D-12489, Berlin, Germany
FEATURES (FEAT):
  Feature Key
                          Location
                                                          Qualifier
  ______
                     1..34156
                                                     /organism="Leishmania major"
source
                                                     /strain="Friedlin"
                                                     /db-xref="taxon:5664"
                                                     /chromosome="5"
                                                     /clone="cosmid L6071"
repeat-region
                     371..386
                                                     /note="poly-pyrimidine tract"
                                                     /note= poly-pyrimidine tract
/note="poly-pyrimidine tract"
/note="(ctc)6"
/note="poly-pyrimidine tract"
/note="poly-pyrimidine tract"
/note="(atgt)4"
/note="(atgt)4"
                     436..456
repeat-region
                     complement(569..604) complement(578..595)
repeat-region
repeat-region
                     complement(666..697)
repeat-region
repeat-region
                     734..751
                     complement(953..968)
repeat-region
                                                     /note="(acatatat)4"
repeat-region
                     complement(969..1000)
                                                     /note="poly-pyrimidine tract"
repeat-region
                     complement(1095..1112)
                                                     /note="poly-pyrimidine tract"
repeat-region
                     complement(1143..1157)
                                                     /note="poly-pyrimidine tract"
/gene="L6071.01"
repeat-region
                     complement(1303..1322)
gene
                     complement(1575..3299)
                                                     /gene="L6071.01"
/note="L6071.01, len = 573 aa,
                     complement(1575..3299)
CDS
                                                     possible monocarboxylate
                                                     transporter protein; weak
                                                     (sub-threshold) Pfam match to
                                                     entry PF01587, Monocarboxylate
                                                     transporter; MCTs catalyse the
                                                     proton linked transport of lactic
                                                     acid, pyruvate and ketone bodies
                                                     across the membrane; THIRTEEN
                                                     predicted TM helices at aa 21-41
                                                     (NOT predicted using HMM to be a
                                                    signal peptide), 66-88, 95+112, 127-149, 156-178, 188-205, 369-411, 418-440,
```

444-462, 469-491, 501-523,

536-558; contains match to PROSITE

trypsin/alpha-amylase inhibitors family signature; some similarity to several transporters, e.g. Q9VG39, CG12286 protein (571 aa, Drosophila melanogaster, EMBL: AE003696, AAF54851); Fasta scores: E():1.8e-08, 27.1% identity in 188 aa' /codon-start=1 /label=L6071.01 /product="possible monocarboxylate transporter protein"
/protein-id="CAC32260.1"
/db-xref="GI:13122224"
/translation="MQIYEACKKADRAVTHRPAD **HWIGYLVAVSGALMQMMSYGIDNS** FSIFSNSMQNDPSLGYPSATTVSFGNSVSLGLSP **VFGILAGFLVDRVPPRVMMFTSTV** MLFAALWLSSSFAKSSAEVTASYSLLASISSALM LSPGAAATGSWFRRRLGLGQGINF CGGGVGSAVVPAVLGSLVDVYGWRHTFRLMSAFC AIGLVATILSCRRHPIEDDVDVDD HARGNNSPAREPSPDDCTAHRSPSHEERNEMMRM **ITSEAGENAAASPTTRMIDSMRTE** AEKAANRNSGDTITKGGKPDAAASARAALASPDG SDDMSMLLGRHQQQPQQLAQYGRK VHGTEACTVADLIQDMHARRLTWGEMMRVFLSVR **FLTHFFMFAIYGWSFYGLIYVAVP** YVSSMGSAGTVYAGVTPISTSKASTVFTFWGVFQ **IVGSILVGGVASFTDDALAYTMCA** TVGGLATSLLVFCRSYAAFAVCLSVVGFCTAGIF **AMMPALIAKDFHGPNLGFVMGCVF** VAGCLGGFSAPPIQAQLQTRYNGNYSYGCVFISC CTTFPGVLCYLLLWPAKQTRVGRV FTRVVRQA complement(1626..1691) /gene="L6071.01' /note="predicted TM helix region, aa 536-558' /note="region of BLASTN similarity to: AA756991 TENU0054 T.cruzi epimastigote normalized cDNA Library Trypanosoma cruzi cDNA clone 1k14 3', bases 3..306, 64% identity over 303 bases' /gene="L6071.01' complement(1731..1796) /note="predicted TM helix region, aa 501-523 /gene="L6071.01" /note="predicted TM helix region, aa 469-491" complement(1827..1892) /gene="L6071.01" complement(1884..1955) /note="PROSITE PS00426 Cereal trypsin/alpha-amylase inhibitors family signature complement(1914..1967) /gene="L6071.01" /note="predicted TM helix region, aa 444-462 complement(1980..2045) /gene="L6071.01" /note="predicted TM helix region, aa 418-440" /gene="L6071.01" complement(2067..2132) /note="predicted TM helix region, aa 389-411" complement(2145..2210) /qene="L6071.01"/note="predicted TM helix region, aa 363-385 /note="region of BLASTN similarity to: AQ847425 LMAJFV1-lm39e07.x1 Leishmania major FV1 random genomic library Leishmania major genomic clone LMAJFV1-lm39e07 3' similar to contains 3..462 V1-ch1-type-II.5 leishmania repetitive element ;, bases 2..220, 98% identity over 218 bases region of BLASTN similarity

misc-feature

1666..1969

2189..2407

PS00426 Cereal

		to: AQ850931 LMAJFV1-lm32d03.x1 Leishmania major FV1 random genomic library Leishmania major genomic clone LMAJFV1-lm32d03 3', bases 1385, 100% identity over
misc-feature	complement(26852735)	384 bases" /gene="L6071.01" /note="predicted TM helix region, aa 188-205"
misc-feature	complement(27662831)	/gene="L6071.01" /note="predicted TM helix region, aa 156-178"
misc-feature	complement(28123185)	/gene="L6071.01" /note="region of BLASTN similarity to: AW330418 TENU5164 T.cruzi epimastigote normalized cDNA Library Trypanosoma cruzi cDNA clone 9119 5', bases 1374, 67% identity over 373 bases region of BLASTN similarity to: AQ847139 LMAJFV1-lm32d03.y1 Leishmania major FV1 random genomic library Leishmania major genomic clone LMAJFV1-lm32d03 5' similar to TR:Q08268 Q08268 CHROMOSOME XV READING FRAME ORF YOL119C.; bases 1526, 98% identity over
misc-feature	complement(28532918)	525 bases" /gene="L6071.01" /note="predicted TM helix region, aa 127-149"
misc-feature	complement(29643014)	/gene="L6071.01" /note="predicted TM helix region, aa 95-112"
misc-feature	complement(30363101)	/gene="L6071.01" /note="predicted TM helix region, aa 66-88"
misc-feature	complement(31773236)	<pre>/gene="L6071.01" /note="predicted TM helix region, aa 21-41"</pre>
repeat-region repeat-region repeat-region repeat-region misc-feature	complement(33093330) complement(36013630) complement(37573774) complement(38933909) 40334247	/note="poly-pyrimidine tract" /note="poly-pyrimidine tract" /note="poly-pyrimidine tract" /note="poly-pyrimidine tract" /note="region of BLASTN similarity to: AQ848215 LMAJFV1-lm59c12.x1 Leishmania major FV1 random genomic library Leishmania major genomic clone LMAJFV1-lm59c12 3', bases 1215, 100% identity over 214 bases"
repeat-region repeat-region misc-feature	complement(41044121) complement(42084222) complement(45164821)	/note="(acc)6" /note="poly-pyrimidine tract" /note="region of BLASTN similarity to: AQ851980 LMAJFV1-lm59c12.y1 Leishmania major FV1 random genomic library Leishmania major genomic clone LMAJFV1-lm59c12 5', bases 1306, 99% identity over 305 bases"
repeat-region repeat-region repeat-region repeat-region repeat-region repeat-region gene CDS	55355561 complement(55355552) 56625681 complement(56865697) complement(59105932) complement(64826496) complement(66518534) complement(66518534)	/note="poly-pyrimidine tract" /note="(ggggag)3" /note="poly-pyrimidine tract" /note="(atgt)3" /note="poly-pyrimidine tract" /note="poly-pyrimidine tract" /gene="L6071.02" /gene="L6071.02" /note="L6071.02, len = 626 aa, GTP-binding protein; contains Pfam match to entry PF01926 MMR-HSR1, GTPase of unknown function; contains match to PROSITE PS00017 ATP/GTP-binding site motif A (P-loop); good similarity to many GTP-binding proteins, e.g.

NGP1-HUMAN, autoantigen ngp-1 (731 aa, Homo sapiens, EMBL: L05425, AAC37588); Fasta scores: E():0, 43.5% identity in 646 aa' /codon-start=1 /label=L6071.02 /product="MMR-HSR1 GTP-binding protein" ./protein-id="CAC32261.1" /db-xref="GI:13122225" translation="MGKPGKKAGKGLLAPTNPNR/ RTDPNKTSLRDQRTIKRLKMYKSK **IKRDEKGNIIKGSVLKASDRIEQQMARIAPDRRW FGNTRTIGQEALQKFREEMGTKYK DPYSVIIKQSKLPLSLLEEPKNTDGSIRKEMEWD** KTFGDKANRKRVRLNAVDMSTLAT **EANVKGDYYDCNKKEKDRDLMKGVHKDRDDKTRN** GILMTKGQSNRIWCELYKVIDSSD **VVLYVVDARDPMGTRSAFLEDFMRREKKYKHFVL** VLNKCDLVPLWATARWLQILSKDY PTIAFHASVNHPFGKGNVISLLRQFARLHNVTHR **GSKRTKTPISVGVIGYPNVGKSSL** INTLRRKSVCKVAPIPGETKVWQYVALTRSIFLI DCPGVVYDRESNNDIQAVLKGVVR VERLGNADKTDVVDTVLKIVKQRDIVATYGVREW RDVVDFLEKLAKLRGKLVAGGEPD **VEAAARMLLYDWQRGRLPWFNAPPFESNKHHRDA** MEQPQEKHMKLIEHYSTFNVVDDT INRGDEKQDEGGDGDEETANNAADEDQLDSGSEA **EKDEEAVKPLKPSKTDRLSATKAD** TQLATVATYMREQEEKQRKAQRQQKRKAARKGQE DVEAFSADADRESDDALWAQFLAA AKV" /note="region of BLASTN similarity to: AL474947 TA177A02Q Trypanosoma brucei TREU927 sheared genomic DNA Trypanosoma brucei genomic clone 177a02 reverse, bases 236..576, 65% identity over 340 bases region of BLASTN similarity to: AQ660089 Sheared DNA-15K3.TR Sheared DNA Trypanosoma brucei genomic clone Sheared DNA-15K3, bases 139..535, 67% identity over 396 bases" /gene="L6071.02" /note="region of BLASTN similarity to: AQ660115 Sheared DNA-10N20.TF Sheared DNA Trypanosoma brucei genomic clone Sheared DNA-10N20, bases 1..233, 67% identity over 232 bases region of BLASTN similarity to: AQ645078 RPCI93-DpnII-29J3.TJ RPCI93-DpnII Trypanosoma brucei genomic clone RPCI93-DpnII-29J3, bases 1..384, 67% identity over 383 bases region of BLASTN similarity to: AQ638738 927P1-19F2.TP 927P1 Trypanosoma brucei genomic clone 927P1-19F2, bases 2..323, 70% identity over 321 bases region of BLASTN similarity to: BF936844 EST459899 Schistosoma mansoni female, Phil LoVerde/Joe Merrick Schistosoma mansoni cDNA clone SMFCC28 5' end, bases 442..611, 67% identity over 169 bases region of BLASTN similarity to: AI034991 TENG0051 T. cruzi epimastigote normalised cDNA Library Trypanosoma cruzi cDNA clone n33.r 5', bases 3..582, 70% identity over 579 bases" /gene="L6071.02" /note="Pfam match to entry PF01926 MMR-HSR1, GTPase of unknown function, score 272.20, E-value

misc-feature

6993..7333

misc-feature

complement(6993..7225)

misc-feature

complement(7116..7919)

6.8e-78'

```
misc-feature
                    complement(7539...7562)
                                                   /gene="L6071.02"
                                                   /note="PROSITE PS00017
                                                   ATP/GTP-binding site motif A
                                                   (P-loop)"
misc-feature
                    complement(7619..7934)
                                                   /gene="L6071.02"
                                                   /note="region of BLASTN similarity
                                                   to: AI975898 EST270492 Schistosoma
                                                   mansoni female, Phil LoVerde/Joe
                                                   Merrick Schistosoma mansoni cDNA
                                                   clone SMFAY31 5' end, bases
                                                   109..424, 60% identity over 315
                                                   bases region of BLASTN similarity
                                                   to: BF936844 EST459899 Schistosoma
                                                   mansoni female, Phil Loverde/Joe
                                                   Merrick Schistosoma mansoni cDNA
                                                   clone SMFCC28 5' end, bases
                                                   109..424, 60% identity over 315
                                                   bases region of BLASTN similarity
                                                   to: AQ646760 RPCI93-EcoRI-3H22.TJ
RPCI93-EcoRI Trypanosoma brucei
                                                   genomic clone RPCI93-EcoRI-3H22,
                                                   bases 45..354, 76% identity over 309 bases region of BLASTN
                                                   similarity to: AQ641764
                                                   RPCI93-ECORI-6J23.TJ RPCI93-ECORI
                                                   Trypanosoma brucei genomic clone
RPCI93-EcoRI-6J23, bases 69..710,
72% identity over 641 bases region
                                                   of BLASTN similarity to: AQ647561
RPCI93-ECORI-6110.TJ RPCI93-ECORI
                                                   Trypanosoma brucei genomic clone RPCI93-EcoRI-6I10, bases 37..515, 70% identity over 478 bases region
                                                   of BLASTN similarity to: AQ641264
                                                   RPCI93-ECORI-5018.TJ RPCI93-ECORI
                                                   Trypanosoma brucei genomic clone
                                                   RPCI93-EcoRI-5018, bases 40..492, 70% identity over 452 bases region
                                                   of BLASTN similarity to: AQ642488
                                                   RPCI93-ECORI-3A8.TP RPCI93-ECORI
                                                  Trypanosoma brucei genomic clone RPCI93-EcoRI-3A8, bases 75..449, 71% identity over 374 bases"
misc-feature
                    complement(7871..8478)
                                                   /gene="L6071.02"
                                                   /note="region of BLASTN similarity
                                                   to: AQ660086 Sheared DNA-15K3.TF
                                                   Sheared DNA Trypanosoma brucei
                                                   genomic clone Sheared DNA-15K3,
                                                   bases 2..609, 65% identity over
                                                   607 bases'
misc-feature
                                                   /note="region of BLASTN similarity
to: AL161067 Leishmania major
                    7891..8389
                                                   Friedlin genomic clone cosmid
                                                   L4370 t3Hyg similar to
                                                   SW:NGP1-HUMAN Q13823 AUTOANTIGEN
                                                   NGP-1. [0] -1..., N=182,
                                                   Prob=1.9e-31, bases 14..512, 99%
                                                   identity over 498 bases"
/note="region of BLASTN similarity
misc-feature
                    8057..8504
                                                   to: AQ942470 Sheared DNA-4515.TF
                                                  Sheared DNA Trypanosoma brucei
genomic clone Sheared DNA-4515,
                                                  bases 22..469, 68% identity over 447 bases"
repeat-region
                   9343..9358
                                                   /note="poly-pyrimidine tract"
gene
                   complement(9427..10017)
                                                  /gene="L6071.03"
CDS
                    complement(9427..10017)
                                                  /gene="L6071.03"
                                                   /note="L6071.03, len = 195 aa,
                                                  unknown; some similarity to
                                                  Q9SL93, putative kinetechore (163
                                                  aa, Arabidopsis thaliana, EMBL: AC006053, AAD31370); Fasta scores: E():0.57, 22.6% identity in 164
                                                  aa'
                                                  /codon-start=1
```

/label=L6071.03

```
/product="hypothetical protein
                          Ļ6071.03"
                          /protein-id="CAC32262.1"
                          /db-xref="GI:13122226"
                           translation="MADEGAIDIRLVLKGPNGEF"
                          KVDRDLYIIVHCDDGKYIEVSKNY
                          IKQCPFIEEAEGEIPEFGYPAAVLEHLIRWAVHY
                          GVDGHAASQLTRPCIYRDFSYVVT
                          DKWDNDFFNQRLCSPLNQKHYLLTMTAAEQFGMQ
                          GLLDFMCIGLGCKLRGKDDNGIIH
                          EVMGLDKEMEITSEDLAEVSRDYPWFDDAVKATT
                          KK"
complement(9861..10122)
                          /note="region of BLASTN similarity
                          to: AI034774 LmLv39p10/544D
                          Leishmania major promastigote full
                          length cDNA library from
                          stationary stage (day 10)
                          Leishmania major cDNA clone 544D 5', bases 1..262, 97% identity
                          over 261 bases region of BLASTN
                          similarity to: AIO34917
                          LmLv39p10/799C Leishmania major
                          promastigote full length cDNA
                          library from stationary stage (day
                          10) Leishmania major cDNA clone
                          799C 5', bases 1..262, 99%
                          identity over 261 basés region of
                          BLASTN similarity to: AI034649
                          LmLv39p10/369C Leishmania major
promastigote full length cDNA
                          library from stationary stage (day
                          10) Leishmania major cDNA clone
                          369C 5', bases 1..262, 99%
                          identity over 261 bases region of
                          BLASTN similarity to: AI034853
                          LmLv39p10/700D Leishmania major
                          promastigote full length cDNA
library from stationary stage (day
                          10) Leishmania major cDNA clone
                          700D 5', bases 1..250, 99%
                          identity over 249 bases region of
                          BLASTN similarity to: T93356
                          lmEST0116 LmLV39cDNA Leishmania
                          major cDNA clone Lm069 5' END,
                          bases 1..250, 99% identity over 249 bases"
complement(10499..13051 /gene="L6071.04"
complement(<10499..1305 /gene="L6071.04"
                          /note="L6071.04, len > 850 aa,
                          unknown; some similarity at amino
                          terminus to Q9R0D0, smoothelin
                          large isoform 12 (921 aa, Mus
                          musculus, EMBL: AF132449,
AAF25578); Fasta scores:
E():0.041, 26.2% identity in 229
aa"
                          /codon-start=1
                          /label=L6071.04
                          /product="hypothetical protein
                          L6071.04"
                          /protein-id="CAC32263.1"
                          /db-xref="GI:13122227"
                          /translation="MSSTWLHALRAYAARTNATP
                          ASLAARCRLFDQLCAVQLRGLPSA
                          QLHPDALPVLREARWSLLREGTTADKAELLEHIV
                          RQYAQASEKAMYAAPTASCSLDGI
                          RGSADAQRQQPGKTSNHTRSLQDRSPQHATRSGT
                          SGSLLSGVQLSEMSVLQQLLLEQV
                          QCLVEAKVSDIPLSARHYRYPMRSPLLATVSPEL
                          PLLLLEELTQQSTAVSSSSSSSSS
                          AQSNIDWEARVDCCVGLVAAGHVQEALALCSDDG
                          STFRTVMHRVVPLRRDGWRCAWAL
```

ADAAPLSRVLDDATAAAGGTASLHWLRGVLEAVD

**MRHRAAVGARQVSDSANAERNHVF** 

misc-feature

gene

bds

```
LIMDTYLSVCPASRWRDAVGAVLE
                                            LAAATDEASAVAQAAAEGNCCADAVTMGRLMSIL
                                            KAAEQPWMVLLFFYGDSLALQVAS
                                            SRSRNDSSPKQPDSDAPARWQVSDKSVQAKVEEC
                                            VRAARDADRLTVATGTILNERDKR
                                            HAAIYNHAMVALAATGHHTEAMHFYRTLPILLVN
                                            CYTHWSVLQLFLQPTRDSRAVSAL
                                            RSSENYNHCARALRHLIRMSTADSKAAHAHTQVN
                                            GNNGSVHPATPIRCTRDQGGVWES
                                           MILWAALRRDTETVDLCATHAPAVSRYAHLIALL
                                            SAAASRGDGWSAAQAQVRHMCAAP
                                            RTTLKELSLATAAMASFFPRWPAGTTAAELPVRA
                                            ELFDEVARSMAPLVGRSQSRMDEM
                                            LELLVGYSVSLRRRRRMPLTPQDEAAALDDILVK
                                            ENILANTMDLARPRAGYASDVDRA
                                           HHSCDNGAADDSGAWRTVVHVMTSVAERQGLSAA
                                           RAAPALVSAGVPAEMAIDL"
/note="region of BLASTN similarity
misc-feature
                 11511..11979
                                            to: AQ847561 LMAJFV1-lm40d09.x1
                                           Leishmania major FV1 random
                                           genomic library Leishmania major
                                           genomic clone LMAJFV1-lm40d09 3'
                                           bases 1..469, 99% identity over
                                           468 bases"
repeat-region
                 complement(11917..11928 /note="(tgtc)3"
repeat-region
                 complement(12402..12425 /note="(gtc)8"
misc-feature
                 complement(12792..13188 /note="region of BLASTN similarity
                                           to: AQ851423 LMAJFV1-lm40d09.y1
                                           Leishmania major FV1 random
                                           genomic library Leishmania major
                                           genomic clone LMAJFV1-lm40d09 5
                                           similar to contains Alu repetitive
                                           element;contains element
V1-ch1-type-II.7 leishmania
                                           repetitive element, bases 1..397, 100% identity over 396 bases"
repeat-region
                 complement(13081..13121 /note="poly-pyrimidine tract"
                 complement(13180..13195 /note="poly-pyrimidine tract"
repeat-region
gene
                 complement(13498..15009 /gene="L6071.05"
CDS
                 complement(13498..15009 /gene="L6071.05"
                                           /note="L6071.05, len = 502 aa,
                                           unknown; some similarity at amino
                                           terminus to Q9KY68, putative
                                           nlp/p60 family secreted protein
                                           (398 aa, Streptomyces coelicolor,
                                           ÈMBL: AL356832, CAB92659); Fasta
                                           scores: E():2.5, 24.8% identity in
                                           141 aa'
                                           /codon-start=1
                                           /label=L6071.05
                                           /product="hypothetical protein
L6071.05"
                                           /protein-id="CAC32264.1"
/db-xref="GI:13122228"
/translation="MAMYPRMACEVAGMTPDAAE
                                           NAVFTLLPPSTKTVRATSMATALR
                                           YRDFLLEQRQREESQRQGGAGHAASSPCGGTSSD
                                           SSGDTLRADAVSFLQWALQYKLGG
                                           PNAFAHRRQELREMAAMMTEGCGAVTAAPPAAGA
                                           EAMRDGIAYDEDAVVAASFFTAAQ
                                           PGGVYYEYIRVGVLSVVLDGILFVHGGVNTSNAG
                                           FVPSLEATSYAEQVTAGQWWLPEV
                                           APQEVATTPTATSATGWLAALERFKAAAFSDWVN
                                           GAALRGEALRAYVYPRFVAPHSIA
                                          VGTVMNVDGPHYIPLTVVAYLLQSGIHTVCGGHQ
                                           PVGDTPAIIRQPGGFTIIDADNSY
                                           CGRGNKFCTRFNRRGAAVMELLFEHPDDHGGDEN
                                          VAPHDAVAAPSLTVHGYRADGAPF
```

**EWVDRLRRLIVPSSKVALAGAEGQQQRVSATALR** 

**EFDAYSDWRVGRYVGDGWWVRLPPEATAATSSLS** 

```
ETRWATAAEVDAWLRQAAASGKATVPGELAPRHT
                                              KEELAEVLAHRLKTKVKRT"
misc-feature
                   complement(13577..14073 /gene="L6071.05"
                                              /note="region of BLASTN similarity
                                              to: AQ853Ž48 LMAJFV1-lm81a10.y1
                                              Leishmania major FV1 random
                                             genomic library Leishmania major
genomic clone LMAJFV1-lm81a10 5'
                                             similar to TR:Q42702 Q42702
                                             GLUCOSE-1-PHOSPHATE
                                             ADENYLYLTRANSFERASE PRECURSOR ;,
                                             bases 1..497, 99% identity over
                                             496 bases"
                  complement(15224..15238 /note="(cac)5"
repeat-region
repeat-region
                  complement(15614..15637 /note="poly-pyrimidine tract"
repeat-region
                  complement(15802..15817 /note="poly-pyrimidine tract"
misc-feature
                  complement(15936..16303 /note="region of BLASTN similarity
                                             to: AQ850713 LMAJFV1-lm41h09.x1
                                             Leishmania major FV1 random
                                             genomic library Leishmania major
                                             genomic clone LMAJFV1-lm41h09 3'
                                             bases 1..368, 96% identity over
                                             367 bases
misc-feature
                  16087..16257
                                             /note="region of BLASTN similarity
                                             to: AF008205 Leishmania major
                                             chromosome 1, complete sequence., bases 58478..58648, 83% identity
                                             over 170 bases'
                  17246..17261
repeat-region
                                             /note="poly-pyrimidine tract"
                  complement(17631..17893 /note="region of BLASTN similarity
misc-feature
                                             to: AL161399 AL161399 Leishmania
                                             major Friedlin Leishmania major
                                             genomic clone PAC P719 right,
                                             bases 1..263, 98% identity over 262 bases"
                  17967..17982 /note="poly-pyrimidine tract" complement(18162..18179 /note="poly-pyrimidine tract"
repeat-region
repeat-region
misc-feature
                  18227..18545
                                             /note="region of BLASTN similarity
                                             to: AL455441 TA40D07Q Trypanosoma
                                             brucei TREU927 sheared genomic DNA
                                             Trypanosoma brucei genomic clone
                                             40d07 reverse, bases 144..462, 64% identity over 318 bases region of
                                             BLASTN similarity to: AL161165
                                             AL161165 Leishmania major Friedlin
                                             Leishmania major genomic clone cosmid L6812.2 t3Hyga similar to
                                             AP000373 AP000373 Arabidopsis
                                             thaliana genomic DNA,..., N=245
                                             Prob=3.1e-12, bases 1..422, 100%
                                             identity over 421 bases"
gene
                  complement(18229..18564 /gene="L6071.06"
CDS
                  complement(18229..18564 /gene="L6071.06"
                                             /note="L6071.06, len = 110 aa.
                                             possibly cytoplasmic dynein light
                                             chain; good similarity to many,
                                             e.g. Q9Z336, tctex-1 (113 aa.
                                             Rattus norvegicus, EMBL: AB010119.
                                             BAA34532); Fāsta scores:
                                             E():1.2e-12, 35.5\% identity in 110
                                             aa'
                                             /codon-start=1
                                             /label=L6071.06
                                            /product="possible cytoplasmic dynein light chain"
                                             /protein-id="CAC32265.1"
                                             /db-xref="GI:13122229"
```

**FSGSEAAHAGLYELRRTQDGFRHE** 

translation="MASGDRITLVDDASVICEDV"

```
DQVVQRLTQEAKLPRKYVVLVTILQKNGAGVQTI
                                          SSCSWNPTSDACYVYKAENKAMHC
                                          IITVYGVTV"
repeat-region
                 complement(18630..18641 /note="(cca)4"
repeat-region
                 complement(18661..18678 /note="(cggcac)3"
repeat-region
                 complement(18679..18696 /note="(tggcac)3"
repeat-region
                 complement(18862..18886 /note="poly-pyrimidine tract"
                 complement(19320..20297 /gene="L6071.07"
gene
CDS
                 complement(19320..20297 /gene="L6071.07"
                                          /note="L6071.07, len = 324 aa,
                                          CDC27/NUC2-related protein;
                                          contains SIX Pfam matches to entry
                                          PF00515 TPR, TPR Domain; contains match to PROSITE PS00132 Zinc
                                          carboxypeptidases, zinc-binding
                                          region 1 signature; reasonable
                                          similarity to many, e.g.
                                          BIMA-EMENI, bima protein (806 aa,
                                          Emericella nidulans, EMBL: X59269,
                                          CAA41959); Fasta scores:
                                          E():2e-25, 31.0% identity in 290
                                          aa'
                                          /codon-start=1
                                          /label=L6071.07
                                          /product="CDC27/NUC2-related
                                          protein'
                                          /protein-id="CAC32266.1"
                                          /db-xref="GI:13122230"
                                          translation="MVRSSSSSSAPLWKNQGGGS/
                                          ATAGAVASTTSPWLLRQLALAHFH
                                          NGDIQESADAFEQLLRTAPWELTNPALIFYSTAL
                                          WHLKSESALGSLAQRLTDAEPLSA
                                          TTLCVVANAYSLIKDPRDALVMLKRAVQVAPTLA
                                          YAHALHGYELLGQDSKAEAEAEFK
                                          AALAVDASLYIAYAGLGERFMREEQIDKARGYYK
                                          EAVKLNPTPAIVNRFALTYHRQGK
                                          SLADLKTALRLYTESLERHPNNVTARRQRADVLL
                                          RLDQPMQALEELKALLVQCPGEAV
                                          VYVTLAECMVCLRRPHEALQHYQTAMHLDPRRES
                                          YVQGCIDQLVAANML'
misc-feature
                 complement(19374..19475 /gene="L6071.07"
                                          /note="Pfam match to entry PF00515
                                          TPR, TPR Domain, score 13.50,
                                          E-value 1.6"
misc-feature
                 19537..20187
                                          /note="region of BLASTN similarity
                                          to: AQ655661 Sheared DNA-2J6.TR
                                          Sheared DNA Trypanosoma, brucei
                                          genomic clone Sheared DNA-2J6,
                                          bases 27..677, 54% identity over
                                          650 bases
misc-feature
                 complement(19578..19670 /gene="L6071.07"
                                          /note="Pfam match to entry PF00515
                                          TPR, TPR Domain, score 2.20,
                                          E-value 26"
misc-feature
                 complement(19669..20187 /gene="L6071.07"
                                          /note="region of BLASTN similarity
                                          to: AQ658921 Sheared DNA-16B5.TR
                                          Sheared DNA Trypanosoma brucei
                                          genomic clone Sheared DNA-16B5,
                                          bases 138..656, 55% identity over 518 bases"
misc-feature
                complement(19689..19790 /gene="L6071.07"
                                          /note="Pfam match to entry PF00515
                                          TPR, TPR Domain, score 22.10,
```

E-value 0.014'

VNALFSHETRYQHSKIAGLVSAIS

```
misc-feature
                complement(19791..19892 /gene="L6071.07"
                                          /note="Pfam match to entry PF00515
                                          TPR, TPR Domain, score 1.60,
                                          E-value 31"
misc-feature
                complement(19833..19901 /gene="L6071.07"
                                          /note="PROSITE PS00132 Zinc
                                         carboxypeptidases, zinc-binding region 1 signature"
misc-feature
                complement(19893..19994 /gene="L6071.07"
                                          /note="Pfam match to entry PF00515
                                         TPR, TPR Domain, score 19.30, E-value 0.094"
                complement(20103..20204 /gene="L6071.07"
misc-feature
                                          /note="Pfam match to entry PF00515
                                         TPR, TPR Domain, score 13.00,
                                          E-value 1.8"
repeat-region
                complement(20271..20285 /note="poly-pyrimidine tract"
                 complement(20905..22083 /gene="L6071.08"
gene
                 complement(20905..22083 /gene="L6071.08"
CDS
                                          /note="L6071.08, len = 391 aa,
                                          unknown; some similarity to
                                          Q9UF25, hypothetical 22.4 Kd
                                          protein (222 aa, Homo sapiens,
                                          EMBL: AL133642, CAB63763); Fasta
                                          scores: E():0.082, 28.5% identity
                                          in 144 aa
                                          /codon-start=1
                                          /label=L6071.08
                                          /product="hypothetical protein
L6071.08"
                                          /protein-id="CAC32267.1
                                          /db-xref="GI:13122231"
                                          translation="MSATPPPPPPPSSNASTGYP"
                                          HTRASPGTYRGAGRGAYSRGPSYO
                                          SSGSSPSSSPIYTSGPSRRGGGNTRVRVHTYGFV
                                          HADPAASLAAAPPASHTSAPRATP
                                          DVATPPLPSASSAASPPLSSISSDVLSSLNASVQ
                                          ESLSGYLYTDAIELAQRLFDLEAS
                                          YAHLHLLAHCYTVSGATGTAYRLLQHYYPFLELH
                                          VTRPRTAGASTSAAGGAAGGVGSG
                                          VLPFDARRTWTASYGVHPSQHPFSSGMPSATAAV
                                          TFSASSNENNLTSDEFELGYETVD
                                          LQSQWDCQYLLGVCCYRTQHYEDGARVLSQLLYV
                                          CHQVTTTSSVLRRRLQQLRQQQQQ
                                          VTVRSDTSEEDDAGVAAAVRATERQLAGLCLRDG
                                          GAHFAGALLVGSVREASPAAPDRG
repeat-region
                complement(21082..21096 /note="(cag)5"
repeat-region
                 complement(22052..22072 /note="(gcc)7"
misc-feature
                complement(22081..22191 /note="region of BLASTN similarity
                                          to: AQ846715 LMAJFV1-lm20b08.x1
                                         Leishmania major FV1 random
                                          genomic library Leishmania major
                                          genomic clone LMAJFV1-lm20b08 3'
                                          bases 1..111, 98% identity over
                                          110 bases
repeat-region
                complement(22223..22242 /note="poly-pyrimidine tract"
repeat-region
                complement(22253..22267 /note="poly-pyrimidine tract"
repeat-region
                complement(23003..23018 /note="poly-pyrimidine tract"
gene
                complement(23178..24416 /gene="L6071.09"
                complement(23178..>2441 /gene="L6071.09"
CDS
                                          /note="L6071.09, len > 411 aa,
                                          possibly chromosome assembly
```

```
for N-terminal portion; predicted
                                             coiled-coil regions at aa 13-110,
                                             210-220; contains Pfam match to
                                             entry PF02483 SMC-C, SMC family
                                             C-terminal domain; contains match
to PROSITE PS00211 ABC
                                             transporters family signature;
                                             good similarity to several, e.g.
                                             BAB11491, chromosome assembly
                                             protein homolog (1175 aa,
                                             Arabidopsis thaliana, EMBL:
                                             AB019235, BAB11491); Fasta scores:
                                             E():2e-30, 35.4% identity in 378
                                             aa'
                                             /codon-start=1
                                             /label=L6071.09
                                             /product="chromosome segregation
                                             protein SMC2 homolog, C-terminal"
/protein-id="CAC32268.1"
/db-xref="GI:13122232"
                                             /translation="QQEMADQLAAAEAHVARLTA
                                             DEERGAAEFERLEADMEQQAADLS
                                             RKTQDTEEDMVQQQSQKLKLAAQVEEVTQQLAAV
                                             QARSKQNEERRQRLEKDIDDAQEE
                                             LTRFAERKVTLDNLVKNGEVGLREQSRCLESLRR
                                             HVHEAEQRHSWLLEARATFNQPGG
                                             PYDFSDAARTAAILQELRDIEVRAAVMTSKLSQK
                                             SAILYEERRREYEELVKQRTALGE
                                             DKEAIQRCITEIESKKWGALDRMVGVVSSIFGKL
                                             FATCLPGATAQLLEERDAANHLSG
                                             LGVRVSFNGKPRESLSELSGGQRSLLALCLILAI
                                             LRVRPAPLYILDEVDAALDPSHTQ
                                             NIGRMLQLYFPHSQFLLVSLKDGMFNNANVLYHI
                                             RNTQGYSEVARIEHKPPPQPTSAD
                                             SDTRNVASGAENKDAVASFA'
misc-feature
                  complement(23271..23858 /gene="L6071.09"
                                             /note="Pfam match to entry PF02483 SMC-C, SMC family, C-terminal
                                             domain, score 88.10, E-value 1.8e-22"
misc-feature
                  complement(23493..23537 /gene="L6071.09"
                                             /note="PROSITE PS00211 ABC
                                             transporters family signature"
misc-feature
                  23503..23999
                                             /note="region of BLASTN similarity
                                             to: AL493037 TA342G06Q Trypanosoma
                                             brucei TREU927 sheared genomic DNA
                                             Trypanosoma brucei genomic clone
                  342g06 reverse, bases 2..498, 58% identity over 496 bases" complement(24517..24697 /note="region of BLASTN similarity
misc-feature
                                             to: AI034783 LmLv39p10/556D
                                             Leishmania major promastigote full
                                             length cDNA library from
                                             stationary stage (day 10)
                                             Leishmania major cDNA clone 556D
                                             5', bases 1..181, 86% identity
                                             over 180 bases region of BLASTN
                                             similarity to: AIO34933
LmLv39p10/815C Leishmania major
                                             promastigote full length cDNA
                                             library from stationary stage (day
                                             10) Leishmania major cDNA clone
                                             815C 5', bases 1..181, 94%
                                             identity over 180 bases"
                  complement(24735..24768 /note="poly-pyrimidine tract"
repeat-region
                  complement(25025..25053 /note="poly-pyrimidine tract"
repeat-region
repeat-region
                  complement(25041..25052 /note="(cct)4"
                  complement(25404..25415 /note="(agt)4"
repeat-region
```

complement(25416..25435 /note="poly-pyrimidine tract"

repeat-region

protein SMC2 homolog; see L6071.12

```
repeat-region
                 complement(25607..25626 /note="poly-pyrimidine tract"
gene
                 complement(25835..26614 /gene="L6071.10"
                 complement(25835..26614 /gene="L6071.10"
CDS
                                            /note="L6071.10, len = 258 aa,
                                            unknown; some similarity to
                                            OREX-RAT, orexin precursor (130
                                            aa, Rattus norvegicus, EMBL:
                                            AF019565, AAC02933); Fasta scores:
                                            E():1, 25.2% identity in 127 aa'
                                            /codon-start=1
                                            /label=L6071.10
                                            /product="hypothetical protein
L6071.10"
                                            /protein-id="CAC32269.1"
/db-xref="GI:13122233"
                                             translation="MPPAPAPPFSSVSQCLSALL/
                                            PPTAFSLLPLTHTHTHTHTHRTCT
                                            HIIFSEPHIVFYCVCPFTRCHRRRPLPSPLSLSL
                                            PQHTTLSTAINKHEAEVVLDWSMS
                                            RLARALAKPFTVPVAMCTRHVAAMDEPLKRHIDA
                                            YAARGEDITIAVWREYVDGQRALL
                                            PYRWTKFRSEVAYLTSGQMAITDLTFADLLVFIR
                                            FLTKCLFIFIVAVMVGRRSVFPSL
                                            EPTSPFVEEIVKNWQPNRLHGVAGAEYMACDQAA
                                            AAGYGHR'
                 complement(26377..26411 /note="poly-pyrimidine tract"
repeat-region
                 complement(26823..26841 /note="poly-pyrimidine tract"
repeat-region
repeat-region
                 complement(27165..27179 /note="poly-pyrimidine tract"
repeat-region
                 complement(27484..27505 /note="poly-pyrimidine tract"
repeat-region
                 complement(27627..27641 /note="poly-pyrimidine tract"
epeat-region
                 complement(28094..28105 /note="(caaq)3"
epeat-region
                 complement(28155..28166 /note="(gtat)3"
nisc-feature
                 28343..28575
                                            /note="region of BLASTN similarity
                                            to: AQ849379 LMAJFV1-lm47b03.y1
                                            Leishmania major FV1 random
                                            genomic library Leishmania major
                                            genomic clone LMAJFV1-lm47b03~5'
                                            bases 160..392, 100% identity over
                                            232 bases"
                 28443..28463 /note="poly-pyrimidine tract"
29010..29031 /note="poly-pyrimidine tract"
complement(29105..29459 /note="region of BLASTN similarity
repeat-region
repeat-region
nisc-feature
                                            to: AQ902240 LMAJFV1-lm47b03.x1
                                            Leishmania major FV1 random
                                            genomic library Leishmania major
                                            genomic clone LMAJFV1-lm47b03~3'
                                            similar to contains element
                                            V1-ch1-type-II.14 leishmania
                                            repetitive element, bases 1..355, 100% identity over 354 bases
                                            region of BLASTN similarity to:
                                            AQ940065 Sheared DNA-19A7.TF
                                            Sheared DNA Trypanosoma brucei genomic clone Sheared DNA-19A7,
                                            bases 1..284, 79% identity over
                                            283 bases region of BLASTN
                                            similarity to: AL472284 TA161B10P
                                            Trypanosoma brucei TREU927 sheared
                                            genomic DNA Trypanosoma brucei
                                            genomic clone 161b10 forward,
                                            bases 39..398, 78% identity over 359 bases region of BLASTN
                                            similarity to: AL463943 TA116C11Q
                                            Trypanosoma brucei TREU927 sheared
```

genomic DNA Trypanosoma brucei

bases 237..522, 78% identity over 285 bases' /note="poly-pyrimidine tract"
/gene="L6071.11"
/gene="L6071.11"
/note="L6071.11, len = 573 aa, repeat-region 29113..29129 29147..30871 29147..30871 gene CDS ATPase alpha subunit; contains Pfam match to entry PF00006 ATP-synt-ab, ATP synthase alpha/beta family, Pfam match to entry PF00422 ATP-synt-A-c, ATP synthase Alpha chain, C terminal; contains match to PROSITE PS00152 ATP synthase alpha and beta subunits signature, PROSITE PS00070 Aldehyde dehydrogenases cysteine active site, PROSITE PS00017 ATP/GTP-binding site motif A (P-loop); good similarity to many, e.g. AAG23339, ATPase alpha subunit (585 aa, Trypanosoma brucei brucei, EMBL: AY007705 AAG23339); Fasta scores: E():0, 88.6% identity in 587 aa' /codon-start=1 /label=L6071.11 /product="ATPase alpha subunit" /protein-id="CAC32270.1" /db-xref="GI:1312224" /translation="MRRFVAQYVAPAMGRLASTA AAGKSAAPGQKSFFKATEMIGYVH SIDGTIATLIPAPGNPGVAYNTIIMIQVSPTTFA AGLVFNLEKDGRIGIILMDNITEV QSGQKVMATGKLLYIPVGAGVLGKVVNPLGHEVP VGLLTRSRALLESEQTLGKVDAGA PNIVSRSPVNYNLLTGFKAVDTMIPIGRGQRELI VGDRQTGKTSIAVSTIINQVRSNQ QILSKNAVISIYVSIGQRCSNVARIHRLLRSYGA LRYTTVMAATAAEPAGLQYLAPYS GVTMGEYFMNRGRHCLCVYDDLSKQAVAYRQISL LLRRPPGREAYPGDVFYLHSRLLE RAAMLSPGKGGGSVTALPIVETLSNDVTAYIVTN VISITDGQIYLDTKLFTGGQRPAV NIGLSVSRVGSSAQNVAMKAVAGKLKGILAEYRK LAADSVGGSQVQTVPMIRGARFVA LFNQKNPSFFMNALVSLYACLNGYLDDVKVNYAK LYEYLLVNKDLSVMYGTATNKFFY MYVQQLNYVIRFFTLNHPILNAEVEEMLKQHTHL FLQHYQSKMNAIKTEKEIKALKNL LYSCKRAV" /gene="L6071.11" nisc-feature 29234...29420 /note="region of BLASTN similarity to: AL472354 TA161B10Q Trypanosoma brucei TREU927 sheared genomic DNA Trypanosoma brucei genomic clone 161b10 reverse, bases 327..513, 79% identity over 186 bases region of BLASTN similarity to: AQ658777 Sheared DNA-27D17 TF Sheared DNA Trypanosoma brucei genomic clone sheared DNA-27D17, bases 91..450, 78% identity over 359 bases region of BLASTN similarity to: AY007705 Trypanosoma brucei brucei ATPase alpha subunit mRNA, complete cds; nuclear gene for kinetoplast product., bases 124..483, 79% identity over 359 bases' /gene="L6071.11" nisc-feature 29291..30346 /note="Pfam match to entry PF00006 ATP-synt-ab, ATP synthase alpha/beta family, score 420.30, E-value 1.8e-122" nisc-feature complement(29600..30196 /note="region of BLASTN similarity to: AQ943100 Sheared DNA-35K24.TR

genomic clone 116c11 reverse,

Sheared DNA Trypanosoma brucei

bases 1..597, 79% identity over 596 bases" complement(29600..29826 /note="region of BLASTN similarity to: AL463943 TA116C110 Trypanosoma brucei TREU927 sheared genomic DNA misc-feature Trypanosoma brucei genomic clone 116c11 reverse, bases 10..236, 79% identity over 226 bases" misc-feature 29664..30267 /gene="L6071.11" /note="region of BLASTN similarity to: AI976759 EST271353 Schistosoma mansoni male, Phil LoVerde/Joe Merrick Schistosoma mansoni cDNA clone SMMAA46 5' end similar to ATP synthase alpha subunit, bases 94..697, 57% identity over 603 bases region of BLASTN similarity to: AY007705 Trypanosoma brucei brucei ATPase alpha subunit mRNA, complete cds; nuclear gene for kinetoplast product., bases 619..1758, 80% identity over 1139 bases region of BLASTN similarity to: AA186203 T3871 MVAT4 bloodstream form of serodeme WRATat1.1 Trypanosoma brucei rhodesiense CDNA 5' similar to gi|45606 (X66103) ATPase alpha subunit [Propionigenium modestum], bases 1..297, 79% identity over 296 bases region of BLASTN similarity to: AQ950429 Sheared DNA-39I2.TF Sheared DNA Trypanosoma brucei genomic clone Sheared DNA-39I2, bases 1..410, 79% identity over 409 bases region of BLASTN similarity to: AZ050719 GSSTc11570 Trypanosoma cruzi random genomic library Trypanosoma cruzi genomic clone G38N18, bases 1..213, 83% identity over 212 bases" misc-feature complement(29665..30067 /note="region of BLASTN similarity to: AL161137 AL161137 Leishmania major Friedlin genomic clone cosmid L6071.2 t3Hyga similar to SLATPSYNA Z22606 S.lividans i protein and ATP synthase..., N=824, Prob=3.3e-60; SW:ATPA-BOVIN P19482 ATP SYNTHASE ALPHA CHAIN LIVER..., N=424, Prob=1.3e-52, bases 1..403, 100% identity over 402 bases region of BLASTN similarity to: AQ950431 Sheared DNA-39I2.TR Sheared DNA Trypanosoma brucei genomic clone Sheared DNA-39I2, bases 2..483, 79% identity over 481 bases" /gene="L6071.11" misc-feature 29732..29755 /note="PROSITE PS00017 ATP/GTP-binding site motif A (P-loop) misc-feature 29829..30350 /gene="L6071.11" /note="region of BLASTN similarity to: AQ653001 Sheared DNA-1M5.TF Sheared DNA Trypanosoma brucei genomic clone Sheared DNA-1M5, bases 1..522, 78% identity over 521 bases region of BLASTN similarity to: AA556054 TENF0235 T.cruzi epimastigote normalized cDNA Library Trypanosoma cruzi cDNA clone 235 5' similar to ATP synthase, bases 10..418, 78%

genomic clone Sheared DNA-35K24,

identity over 408 bases region of

BLASTN similarity to: N45888 T1405 MVAT4 bloodstream form of serodeme WRATat1.1 Trypanosoma brucei rhodesiense cDNA 5' similar to Na+-transporting ATP synthase alpha chain, bases 24..292, 77% identity over 268 bases region of BLASTN similarity to: AI067305 EST208983 Schistosoma mansoni, Phil LoVerde/Joe Merrick Schistosoma mansoni cDNA clone SMNAS35 5' end similar to ATP synthase, alpha subunit, bases 4..420, 59% identity over 416 bases region of BLASTN similarity to: AI067846 EST209530 Schistosoma mansoni, Phil LoVerde/Joe Merrick Schistosoma mansoni cDNA clone SMNCF75 5' end similar to ATP synthase, alpha subunit, bases 4.457, 59% identity over 453 bases region of BLASTN similarity to: AI068328 EST210019 Schistosoma mansoni, Phil LoVerde/Joe Merrick Schistosoma mansoni cDNA clone SMNCT59 5' end similar to ATP synthase, alpha subunit, bases 4.457, 59% identity over 453 bases region of BLASTN similarity to: AI067947 EST209635 Schistosoma mansoni, Phil LoVerde/Joe Merrick Schistosoma mansoni cDNA clone SMNCH12 5' end similar to ATP synthase, alpha subunit, bases 4..499, 57% identity over 495 bases re gion of BLASTN similarity to: AI068269 EST209960 Schistosoma mansoni, Phil LoVerde/Joe Merrick Schistosoma mansoni cDNA clone SMNCQ92 5' end similar to ATP synthase, alpha subunit, bases 10..505, 58% identity over 495 bases region of BLASTN similarity to: AL160498 AL160498 Leishmania major Friedlin Leishmania major genomic clone PAC P108 right similar to MXPTATP D16176 M.xanthus DNA for proton translocating..., N=1252, Prob=6.5e-96; SW:ATPA-DROME P35381 ATP SYNTHASE ALPHA CHAIN,. N=548, Prob=4.3e-69, bases 3..450, 100% identity over 447 bases region of BLASTN similarity to: AZ215908 Sheared DNA-116C10.TF Sheared DNA Trypanosoma brucei genomic clone Sheared DNA-116c10, bases 2..633, 79% identity over 631 bases" /gene="L6071.11" /note="PROSITE PS00070 Aldehyde dehydrogenases cysteine active site' /gene="L6071.11" /note="region of BLASTN similarity to: AZ050667 GSSTc11516 Trypanosoma cruzi random genomic library Trypanosoma cruzi genomic clone G36G9, bases 1..336, 84% identity over 335 bases" /note="region of BLASTN similarity to: AZ051030 GSSTc11882 Trypanosoma cruzi random genomic

library Trypanosoma cruzi genomic clone G54D16, bases 1..369, 84%

misc-feature

29834..29869

misc-feature

30156..30491

misc-feature

complement(30200..30568

misc-feature	complement(3029030870)	identity over 368 bases" /note="region of BLASTN similarity to: AQ658781 Sheared DNA-27D17.TR Sheared DNA Trypanosoma brucei genomic clone Sheared DNA-27D17, bases 91671, 79% identity over 580 bases region of BLASTN similarity to: AZ218156 Sheared DNA-58H4.TR Sheared DNA Trypanosoma brucei genomic clone Sheared DNA-58H4, bases 164576, 78% identity over 412 bases region of BLASTN similarity to: AA875724 TENU0195 T.cruzi epimastigote normalized cDNA Library Trypanosoma cruzi cDNA clone 6e3 3', bases 197477, 81% identity over 280 bases region of BLASTN similarity to: AI021883 TENU0477 T. cruzi epimastigote normalized cDNA Library Trypanosoma cruzi cDNA clone 7e21 3', bases 190424, 79% identity over 234 bases region of BLASTN similarity to: AQ911949 LMAJFV1-ln07g01.y1 Leishmania major FV1 random genomic library Leishmania major genomic clone LMAJFV1-ln07g01 5',
misc-feature	3031430343	bases 1239, 99% identity over 238 bases" /gene="L6071.11" /note="PROSITE PS00152 ATP
misc-feature	3034730433	synthase alpha and beta subunits signature" /gene="L6071.11" /note="Pfam match to entry PF00422 ATP-synt-A-c, ATP synthase Alpha chain, C terminal, score 24.40,
misc-feature	3037330582	E-value 2.3e-07" /gene="L6071.11" /note="region of BLASTN similarity to: AQ940066 Sheared DNA-19A7.TR
misc-feature	3042830748	Sheared DNA Trypanosoma brucei genomic clone Sheared DNA-19A7, bases 1210, 78% identity over 209 bases" /gene="L6071.11" /note="region of BLASTN similarity to: AI073316 TENU2987 T. cruzi epimastigote normalized cDNA Library Trypanosoma cruzi cDNA clone 28c8 5', bases 1321, 80% identity over 320 bases region of BLASTN similarity to: AI035122 TENG0213 T. cruzi epimastigote
misc-feature	3083731319	normalised cDNA Library Trypanosoma cruzi cDNA clone n250.r 5', bases 1367, 80% identity over 366 bases" /note="region of BLASTN similarity to: AZ082002 L2005k.d-HygT7.1 Leishmania major Friedlin Cosmid Genomic Library Leishmania major genomic clone L2005k, bases 11493, 98% identity over 482
repeat-region repeat-region misc-feature	3137031381 3176731784 3181432217	bases" /note="(agt)4" /note="(acc)6" /note="region of BLASTN similarity to: AL491879 TA320H10Q Trypanosoma brucei TREU927 sheared genomic DNA Trypanosoma brucei genomic clone
gene CDS	3182534155 31825>34155	320h10 reverse, bases 133536, 76% identity over 403 bases" /gene="L6071.12" /gene="L6071.12"

/note="L6071.12, len > 776 aa, possibly chromosome segregation protein SMC2 homolog; see L6071.09 for C-terminal portion; predicted extensive multiple coiled-coil regions at aa 180-480, 711-776, continued in L6071.09; contains Pfam match to entry PF02463 SMC-N, SMC domain N terminal domain; contains match to PROSITE PS01156 TonB-dependent receptor proteins signature 2, PROSITE PS00017 ATP/GTP-binding site motif A (P-loop); good similarity to many, e.g. SMCŹ-YEAST, chromosome segregation protein smc2 (1170 aa, Saccharomyces cerevisiae, EMBL: D44602, BAA08042); Fasta scores: E():0, 29.2% identity in 811 aa" /codon-start=1 /label=L6071.12 /product="chromosome segregation protein SMC2 homolog, N-terminal" /protein-id="CAC32271.1" /db-xref="GI:13122235" /translation="MRVKSIVIDGFKSYAHRKEL ADLSPHFNAITGLNGSGKSNIFDA **ICFVMGITNLKRVRAEDPRELIFRAGTTGVHAAR** VTIEFVNDDPASAPPGYSCEEYPL ITIGRQIKLGGRQQFFFNNTVSLQSKVKRFFESI SLNVDNPHFMILQGTVHKLIGMRS QDILSLIEEAVGTKAFDHRRRTAETLIRNKERKM EEIDTNIEAQIRPLLETMRADQEE YNTFMQMREKMEEKVRFRVALDYHTHRTQHAEAE AAMTARKADVQNAKTQLQALPRQE EEAARRLLQLQDSLSAPSEAAIALHEEEDELKKA **HSRLEGQLGNCTKSLKQLETQLKS** LRKEQERQSSSQAAFAARQREHEQLLAQIKEGKE **TCAKLKKGLKLLRSGVQAGASGVS** LAEERQQVDLQLIEQQSRVRRATDRLEELVKQQR RVEAHQAEESSRVRHLEREYAKAT ASLEKAKAVYTPLALKQQRKEALEAEISSLKREC QAEYENFQRQVSTATARNYDLDYN RYACPPDTEDKVLGRVGQLITPTDPQHALGLMVG AQNQLLRVVVTDDRVAEAIIRSGL RQRTAFFALDKLQRQPTHFFIDGAKLQAARLMAE QQGGWVHRARDLVTVQEASSHQQQ QQLNALADFVFGNFLVCSSLRLAQELAYDASIKA KAVTVEGEVAEPNGLMTGGSTRQL RDVFADLKTYTAQKEPLKALQQRTRALEVEYAAL RDTLRQHQHDIQVYKTAEEAAELS KQRYIVAANSAQSGAAEQAEQIEREQTALAEARE KVE" /gene="L6071.12" /note="Pfam match to entry PF02463 SMC-N, SMC domain N terminal domain, score 176.70, E-value 3.9e-49" /gene="L6071.12" /note="PROSITE PS00017 ATP/GTP-binding site motif A (P-loop)"

complement(31950..32566 /note="region of BLASTN similarity to: AZ215185 Sheared DNA-83G9.TR Sheared DNA Trypanosoma brucei genomic clone Sheared DNA-83G9. bases 2..618, 71% identity over 616 bases region of BLASTN similarity to: AQ649957 Sheared DNA-5H11.TR Sheared DNA Trypanosoma brucei genomic clone Sheared DNA-5H11, bases 80..689, 61% identity over 609 bases region of BLASTN similarity to: AQ653051 Sheared DNA-6M4.TR Sheared DNA

Trypanosoma brucei genomic clone

misc-feature

31825..32343

misc-feature

31918..31941

misc-feature

misc-feature 32122..32175

33688..33702

54% identity over 652 bases /gene="L6071.12" /note="PROSITE PS01156

TonB-dependent receptor proteins signature 2"

Sheared DNA-6M4, bases 27..679,

/note="(cag)5"

## SEQUENCE (SEQ):

repeat-region

1 caaacacaca cacacacaca agtgacacac gaaaaaaaaa tgagcgagga gaagcggaaa 61 gagggagata tgacgtggta cagcagtgcg catgcgtgca cgtgtaggct facccatatt 121 gcggtaaacc acacgcgccc cgcagcgagg gaagggcatg ggagagggcc gagatgaggc 181 ggcgacaaga caaacgagca atttgcgctc gtccgccgta tcgctctcgc ccacccctc 241 cccaccccg tctgctcggt tccacctccc gctcttgtac ctgcttcttc gcgcgtacca 301 cacgcccctc gcatcccctt cttcgtccgt accacattcc tgctgaggct tctgctgttg 361 cttcccctcg ctcccttctt ccctccatct ctttccgtcc catatataca tctatatata 421 tatatatgca tcccatccct ccctctttct ttccctggat caccctgcca cgcagcacac 481 agcacagaga ggtacggcgg cgtcccccc cccgccccg cccctctct gccaagtggt 541 ctgcgccgtt tgcggacaaa cgccatgcga ggggggagag gaggaggagg aggagggaag 601 agaacgcacc cacaaaacaa aaaaaaagca taagaaatcc acacacactt acacacagac 661 acaccgagag agagagagag agggagagagagagatcg tgttgcattg ctacactcgc 721 cctctccac ttgttctctc tctctccc tatgcatatg tgcgtagtgg tggtgcggtg 781 gttcggtcaa atttgcgacc gccatgagga caataaagcc aacgtacaaa caacaacaaa 841 tacatatata tatatatata tgtatatatg tatatata tataccaaac gaaaagggag 901 aaacgcaggt ggacatgaaa gcgataacga tgtcataaac gataatgcat gcacatacat 961 acatacatat atatgtatat atgtatatat gtatatatgt atgtgcatgc aggtatatac 1021 attatcattc ttttgcgact cgtgtcatgc cttctccgtg cgcatcggcg tggcagtggg 1081 gcagagaagc atacgagaaa gagaaggaga ggcgctcggg gtgggggtgc aggagggggt 1141 gcaggagggg gggggaatgg acgaagtggc attcgggaaa agctgtgaga gacgacgatg 1201 tgacgtgatc gatacacaca cacacacaca cacacggagg agcagcagcg gcagagcgca 1261 agaacgccgc acagtcgcga atgccgcttg ctggaaaacg acgaagaagg gaggaggagg 1321 gacteggeca tgtgegegat ageagtgeae egaegggeee attegegaeg ggegteaege 1381 accaccatgg catcggcctg cggcagcgag agctgcctca cgcacgccag cgagagaggg 1441 acatatggtg acgcacatta acggcagctg cggaagcagt gacactttcc gtttcgtcgc 1501 ggcagggcgg gctgagggca aagacgtgac cagtggccgg agggaagatg gtgtcgacac 1561 gtggcggccc cttctcatgc ctgcctcacc acgcgcgtga agacgcgtcc gacgcgagtc 1621 tgcttcgccg gccacaggag caggtagcac agcactcccg gaaacgttgt gcagcagctg 1681 ataaatacac agccgtacga gtagttgccg ttgtagcgtg tctgcagctg cgcctgaatt 1741 ggcggggctg aaaagccgcc aaggcagcca gccacaaata cacagcccat gacgaagccg 1801 aggitaggec egtggaagte ettggegate agtgeeggea teatggegaa gatgeeggee 1861 gtgcagaagc cgaccacact taagcacacg gcgaaggccg cgtagctgcg gcaaaagacg 1921 agcagcgacg tcgccaaacc accgacggtg gcgcacattg tgtaggcgag ggcgtcgtcg 1981 gťgaaggagg ccacgccgcc taccaggatg gagcccacaa totgaaacac accccaaaac 2041 gtgaacaccg tcgacgcctt ggaggtgctg atgggggtga cgcccgcgta caccgtgcca 2101 gcgctgccca tggaggagac gtaggggacg gccacgtaga tgagtccgta gaaggaccac 2161 ccgtagatgg cgaacatgaa gaagtgcgta aggaagcgaa cagataagaa gacgcgcatc 2221 atctctccc aagtcaggcg ccgcgcgtgc atatcctgga tcagatccgc caccgtgcag 2281 gcttcggtgc cgtgcacttt ccttccatac tgcgcgagct gctgcggctg ctgctggtga 2341 cgacccaata gcatgeteat gtegtegetg cegtetggeg acgccaggge ggegegeget 2401 gacgetgetg cateeggett geegeeette gtgatggtgt caeegetgtt geggttegee 2461 gccttctccg cctccgtgcg catggagtcg atcatccgcg ttgtcggtga ggccgcggcg 2521 ttctcacctg cctcggaggt tatcatgcgc atcatttcgt tccgctcctc gtggctgggg 2581 cttctgtgcg ccgtacaatc atcagggcta ggctcgcggg cggggctgtt gttgccgcgt 2641 gcgtggtcat ccacgtcaac gtcgtcctcg atcgggtggc ggcggcagga gaggattgtg 2701 gcaaccagcc caatggcgca gaacgcagac atgaggcgga aggtgtggcg ccagccgtag 2761 acgtccacga ggctgccgag caccgctggg acaacggcac tgccaacgcc gccaccgcag 2821 aaattgatgc cctgtccaag gccaaggcga cgccggaacc acgagccggt cgccgctgcg 2881 ccaggcgaca gcatcaacgc ggaggagatg gaggcgagta gcgagtagga cgccgtgacc 2941 tccgccgagc tcttcgcaaa cgacgagctc agccacagtg cggcgaagag catcaccgtg 3001 gaggtgaaca tcatcactcg cggcggcacg cgatcgacaa ggaagccagc gagaatgcca 3061 aacactggcg acaacccgag agagacggag ttaccgaagc tgacggttgt cgcgctcggg 3121 tagcccagag acgggtcatt ctgcatactg ttcgagaaga tggaaaaact gttatcgatg 3181 ccgtagctca tcatctgcat cagagcaccg gaaacggcaa cgaggtagcc gatccagtgg 3241 teegeeggge ggtgggtgae egeeeggtee geettettge atgeeteata gatetgeatg 3301 acttgtgtgg gagggagagg agggggagga cgcctgctgg tggcggtgag agtcctttgc 3361 cggagccgtg gaagcacgag gagccaaaac aacaacaaaa aggaacggac acgtggagga 3421 tgtgacgcgt ggagtggggg tggggtgggt gagtggggtg gacagtgaga gagactgtga 3481 gaagggggta gggtggggag ggggtggggt ggttgcgtca cccaatggcg cgcgtggcat 3541 cataacgatg gcgagcaccc cgcaagcgaa gagaagagg cagtgaggca agaaaagagt 3601 gaggagggg gaggggagga gggagagaag caaccggcgc gagaagggac cggccgcca 3661 tgcggcgtta gcaacgcaca caagatgaac ataggaagag agaagtgtca catgcgcatg 3781 gggggtgatg gccatagcag gcggggctgg acagacctca cttgcgccat ctgagagcta 3841 ctcctccttc ccatgcatcg catggcggct cacgtgcacc tcgacatcac ctggagaggg 3901 aaggaaggac gggtatgcga atgggaagcg gaggagggtg gggtaaggac gaggcagaca 3961 agcagaaaag acatcacgic aacagttgic itcitaigcc cicgcciict acgicttgac

4021 acgtacacac gcacgcacac gtaaaggtat ctctgacgtc tctttccttc tqtacctcqt 4081 catggctcaa cgcgagggag aggggtggtg gtggtggtgg tgggcatgca tcatcacgat 4141 ggcgatggcg gcatgtgtga gtcacacgct cactgtagtg ccacggctgg aaggcacgag 4201 aggggacgaa ggagggaggg ggtgagcggt gcgggaagag gcatcgggta gcaatgcaca 4381 cagcttcgcg cccctcgcgc agcagctcct cggcacgccg ggctttcgcg ttgaagtagg 4441 catcccgctc ctcgcgaatg aatcgcagtg cccgtcgcgc tcgtcgtgcc gcctcatctt 4501 tggctgaaac gggcaccacc ggtgcagctg cgacatgagg ctgctgccga ggcagatcgt 4561 tgcaggtctt gtcagcgttg ggtcgaggcg tcactgactt tacggcactt ctgccacttc 4621 gittiggttg iggaggaagc ggcggiggca cacgggiggc cgccaaaggi tgigggagag 4681 gcgaagaget getactaatg gtgetaggea caggacaage getgtgeega aagggtggtt 4741 gccgaaccct tgccgcgtcg tgggcgtggt gcctccaagg cagcggcgct gccgatggct 4801 gcttgatgca ggtagtggca acggccacca cttcagcctc agcagctacg tgacccccgt 4861 tgtgaaccgt ggtaggctcc ttcgcagcaa ccatagtagc agcgtcaccc tcgctgagaa 4921 aatcaaggct actcagctga tggacgagca gctgcgcgta gtgttgttga agggcatcga 4981 ggtgccggag ctctatctcc agctcctgtg cgagggcaac ggcatgcggc agcgtcgcgt 5041 tactcgtcat ggcgcagaca tgccatatgc agaagaaagg taaccgacgc agcccctgcg 5101 tggtgcctcg gcgttcacca gtctccacgt ttttcagatt gtctatatca cagcgtctaa 5161 tggttgtgtc gaccaacgca cctagaagac ggcaggcaca aggcgatgcg ctgcacacca 5221 aactgaagcg aacaagggta gaagaaggag cgaaagacag gaagggccac gagcgagtgc 5281 cgtaagctgc acagggggag tgacgggcga catctccgtg cgcacacacg cgagagcaat 5341 atatatgcat atatatatat atatatatat atatatatat agtccaacga gagggaccga 5401 gagcgttgtt gccgaacctg cgctctcccg ctgctgcttg caccaccgga ttcgaaaagt 5461 gcgccatcgg gaggtgccac aacagcgggc gctgccgcag caaacacatg tggtagcgag 5521 tactaacaga gaaactcccc ctcccctcc ccctttctct tgttgttttc cgtgaccacc 5581 gtctgcggaa agcctagcgc ggtagatggc accgcggtaa caggtccatg aagctgcgga 5641 ggacticito ataccicaac giicitocico teccococo cacacacata catacataca 5701 čacgttaatg acgccctttt čgcttattcg ttattctggg tggctcgcgt gctcggaccg 5761 gagaaggacg atcgattggc tcgcacgcgc atcactttac acggagttgt ttgtcacacc 5821 cctcactgct tagatgaagt taacgacagc caacacggca gtgtcggcgc ttacacggct 5881 gcgctcgttc aagcgtgaaa gcaaacaaca aaaaaaaagg gaagaaaaaa aacacgcaca 5941 gacgtgtgga acacactttt ccccagcccg tccatttcgc cgccatggaa gatggagtca 6001 aacgccactc gatccctgg cccgtcccac agccccgcc ccgcggcgtg aggcagccgt 6061 ggagaggcat gctcggtgca gcgacgcgc ggtctagcca tcccccatg gccctgcgc 6121 cgaacgctgc ccacaccctc ggtgcatcgc tcggggggt gcgcgggcgt gttcactgtc 6181 gccggtcgct cgggcggc tacgtcgtgg gtgctcggc tggtcaccgc caacggcggt 6241 tcggcattgg aaggggttgg ggggctgctt ggcttccct cgcacacagg ggatggggtc 6301 gctgggccc gcgctgcgag gcgtgtgt gtgtgcgtgt gcgcgcgcgt gtgtatgtcc 6361 cctccctctt cgtcgtgggg gaggggggc aaggaaaaat caggaacagc gaaggaagaaa 6421 aggtgaccag caggaacagg gaagagaagaaa 6421 aggtgaccag caggaacagg gaagagagaa 6421 aggtgaccag cagacacggc aaaaaacaca aaccaagcag agcgatggat agaggacgca 6481 caaaaagaaa aagaaacagc aacagcggcg gttgtttctc taggcagatg agatacgcaa 6541 gacacgagat gatgatcgat catgcgcagg agaaggggtg ttgcgcacgc acaagcactt 6601 caaacaacga cagcagcaac aaaacacaca tatgtttctt gtgccttgtg ttacaccttg 6661 gcagcagcca agaactgcgc ccagagcgcg tcgtcgctct cgcgatcagc gtccgctgaa 6721 aaagcctcca cgtcctcctg tccctttcgc gcggccttcc gcttctgctg ccgctgggcc 6781 ttgcgctgct tctcctcctg ctcgcgcatg tacgtggcca ctgttgccag ctgagtgtcc 6841 gcctttgtcg cagacagcct gtcagtctta ctcggtttca aaggcttgac agcttcctca 6901 tettteteeg ceteactace getgtegagt tggteetegt cageegegtt attegeggtt 6961 tectegtece egtegeetee eteatetige tieteatege caegaitaat agtgicaiet 7021 accacgttga aggtgctgta gtgctcgatc agcttcatgt gctittcctg cggctgctcc 7081 atcgcatcac ggtggtgttt attggactcg aatggcggcg cgttaaacca cggcagacgc 7141 ccgcgctgcc agtcgtacaa gagcatgcgc gcggcagctt ctacgtccgg ctcacctcca 7201 gcgaccagct ttccgcgcag ctttgcaagt ttctcgagaa aatcaacaac gtcgcgccat 7261 tetetgaege egtaagigge cacaatateg egetgetiga caatetteaa cacagiatee 7321 acgacgtcag tcttgtccgc gtttccgaga cgctccacac gcacgacacc cttcagcacc 7381 gcctgaatat cgttgttcga ctctcggtcg tacaccacgc cagggcagtc gatgaggaaa 7441 atactgcgtg tcagagcaac atactgccat accttcgtct caccaggaat tggtgccacc 7501 ttgcagacgg atttacgacg tagcgtgtta atcagcgagc tctttcctac atttgggtaa 7561 ccaatčacgč ccacagaaat cggcgtčttg gtgcgcttgc tgccgcggtg tgtcacgttg 7621 tgcagacgcg caaactgccg gagtaaagaa atgacgttac ctttgccaaa agggtgattc 7681 acactggcat ggaaagcaat ggtgggatag teettgetga gaatetgaag ccagegagee 7741 gtggcccaca gaggcactaa atcacacttg ttcaacacca gaacgaagtg cttatatttt 7801 ttctcacgtc gcatgaaatc ctccagaaag gcacttcgcg tacccatcgg atcgcgcgcg 7861 tcgacgacgt acagcactac atccgagctg tcgatcacct tgtacagctc gcaccaaatt 7921 cggtttgatt gacccttggt catcaaaatc ccgtttctgg ttttatcatc gcgatccttg tgcacccct tcatcaaatc gcggtctttc tcttcttgt tacagtcgta atagtcaccc 8041 ttgacgttgg cctctgtcgc caaggttgac atgccacag cattgagtcg cacccgcttg 8101 cggttcgcct tatcaccaaa cgttttgtcc cactccattt ccttacggat gcttccgtca 8161 gtgttctttg gctcttcaag aaggctcaac ggcagcttgg actgcttgat aatgacgctg 8221 tacgggtett tataettggt teccatttet tegeggaact tttgaagege etectggeeg 8281 atggtccggg tgttgccgaa ccaacggcgg tcaggtgcaa tgcgcgccat ctgctgctca 8341 atgcgatcgg acgctttgag cacgcttccc ttgatgatgt tgcccttttc gtcacgtttg 8401 attitcgact tgtacatiti cagccgctta atggtgcgct gatcacgaag actagtctta 8461 tttgggtcgg tgcgccggtt tgggttggta ggggcgagaa gccccttccc ggcctttttg 8521 cctggcttgc ccatttcttc ttggtgcgct gtgagaagtc aagataataa atattcaaaa

8581	gactcaccat	tagataaaca	tccgaccggc	aggtccacga	cacagcgaga	aacactttac
8641	tgactgagca	gaacaaaatg	aaccgtagtg	ctggcgcgtc	tgaggccaag	cagtgggtaa
8701	gcttcttcct	ttgctacttg	gcagggatta	aagtgcgagc	caatttgcaa	attatatgtt
8761	taagtttttt	tcgtgtgtga	taataatagt	aatgcgaata	tcagatgata	aatccagttg
8821	tatatcagtg	tgcgaagtca	tccatgatgg	agggggaaaa	caaatgtaat	atagatacta
8041	gigalagaca	cggaaagagt	caccasasco	aggaccyc	agagcacagg	canctactet
9001	atctutageng	acadoacacc	aacacaanca	tatacacatc	agtggaatga tctgcttcgg	conctatnet
					aaccacgagt	
					tcaatgagct	
9181	gatcgatggc	ttcttgccac	tttaccgatg	agcatataca	gaaaaacctt	tagtgatcgc
					tatatatata	
					gattttttt	
					ttgacaccga	
					aaccacgggt tcaaggccca	
					aggccgatgc	
9601	gagcagtccc	tacataccaa	actactcaac	taccatcatt	gtcaggaggt	aatgcttctg
					tcccacttgt	
9721	gtaagagaaa	tcacggtaaa	tgcatgggcg	ggtcagctgg	ctagcagcat	ggccatctac
9781	gccgtagtgg	accgcccagc	gaataagatg	ctccagcact	gcggctgggt	agccgaactc
9841	tgggatctcg	ccctcggctt	cctcaatgaa	cgggcactgt	ttgatgtagt	tttttgacac
9901	ctcgatgtac	regerategt	cacagtggac	aatgatataa	aggtcgcggt	caccettat
					gcgccttcgt gtttcctttc	
10081	cgaacagaaa	cagagtacgt	cgagagagaa	aacaacttta	ttcttttcgt	gtacaattaa
					gtaagagggc	
					aagtcatgac	
10261	gtggagggaa	cttgtgtgct	cctccactag	ccaagacgct	ctcaagaggc	gatgtgtttc
10321	gcttgtcata	attcgagtcg	cgtagcagag	agcgggtttt	tgcaagaatt	cgccaccgac
10381	accctttttc	agcgaannnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn
					nnnnnnnnn tgctggcgcg	
					caccaccgtg	
10621	cagaatcatc	taccacacca	ttatcacaac	tataatacac	tctgtcgacg	tcagaggcgt
10681	acccggcgcg	cgggcgggcc	aggtccatgg	tgttcgcgag	gatgttčtcč	ttgacaagga
10741	tgtcatcaag	tgccgccgcc	tcgtcctgcg	gtgtcaaggg	catacggcgg	cgccgccgga
10801	ggctgacaga	gtagccgaca	aggagctcga	gcatctcgtc	catgcgagac	tgactgcggc
					ctccgcgcgc	
10921	cggccgcggt	agtaccggcc	ggccagcgcg	gaaaaaatga	ggccatggct	totacctaca
11041	conctaacca	accutcuccu	cacaatacaa	conconaaaa	gtggcggact cagggcaatg	agatgcgcat
11101	atcgagacac	gaccaacaca	tacataacac	acaggtcgac	cgtctcggtg	tctcqtcqaa
11161	gtgčggccca	cagtatcatg	gattcccaca	ctccgccttg	gtcgcgtgtg	cagcggatcg
11221	gtgtcgccgg	gtgcacgctg	ccgttgttgc	cgttcacttg	ggtgtgcgca	tgcgctgctt
11281	ttgagtctgc	cgtgctcatt	cgaattaggt	gtcggagagc	gcgcgcgcaa	tggttgtagt
11.401	desdesedas	geggagegea	gagacggcac	ggctgtccct	tgtcggctgc	aagaagagct
11461	gcaycacyya	catataatac	cccataacaa	caaycayyac	cggcagcgta catggcgtgg	ttotagaagu
11521	caacataaca	cttatcacat	tcattcagga	tcatacccat	tgccactgtg	aggcagtcag
11581	catcacacac	tgctcgcaca	cactcttcca	ccttcaccta	gacagatttg	tcactcactt
11641	gccacctcgc	gggagcatcg	ctgtcaggct	gcttggggct	gctgtcgttg	cgcgaccgcg
11701	aagatgcgac	ctgcagcgcc	agcgagtcgc	cgtagaagaa	aagcagcacc	atccatggct
11021	gctctgccgc	tttgaggatg	gacatgaggc	gccccattgt	caccgcgtcg	gcgcagcagt
11881	descences	gecgettge	gccacagcag	tagetagee	agttgcagca gacagacaag	gctagctcca
11941	tgattagccg	cancaccatc	acadacacac	actattacta	cccctctgca	ccanccaata
12001	ccaccttact	cgacggcaca	atcaagcagc	gcagacgatc	cacccactcg	aacacatgat
12061	tccgttcggc	attggcactg	tcacttacct	gccgcgcccc	cacggccgct	cggtggcgca
12121	tgtccaccgc	ctccagcacc	ccgcgcagcc	aatggagaga	ggcagtgccg	cccqcqqcqq
12181	cggtggcgtc	gtcgaggacg	cgagagagcg	gggcggcatc	ggccagcgcc	cacqcqcatc
12241	gccacccgtc	gcgacgcagc	ggcaccacgc	ggtgcatcac	agtacgaaaa	gtgctaccat
12361	antegetgea	cagagegage	gccccctgca	cauggcccgc	cgcgacgagg tgacgacgac	ccgacacagc
12421	acracactor	tatactctat	tatataaact	cctccancan	gagaagcggc	agetetagge
12481	ttaccataac	gagcagcaga	qaacqcatta	ggtagcagta	gtggcgcgcc	gacaagggaa
12541	tgtcagacac	cttggcctca	acaagacact	gcacctgctc	cagcagcagc	tgctgcagca
12601	cactcatctc	gctgagctgc	acqccqqaqa	ggaggctacc	ggaggtaccg	ctgcgagtcg
12661	catgctgtgg	cgacctatct	tgcagggagc	acatataatt	gctcgtcttc	cccqqctqct
12721	ggcgctgcgc	greegeactg	cctcttatgc	egrecagget	gcaagacgcc	gragagetes
12841	ccttatcacy	agtggtgcct	tcacacaaca	attraccases	aatgtgctcc cgcctcgcgg	ageagetteg
12901	qqqcatcaa	atgcagctgc	acacttaaca	adccacacaa	ctgcacagca	cacaattaat
12961	cgaagaggcg	acatcgagcg	gcgagcgatg	cgggcgtcgc	attagtgcgc	gccgcgtacg
13021	cccgcagcgc	gtgaagccac	gtggacgaca	tcacaactaa	acagacaaca	acaggaagac
13081	ggagggagag	agagagagag	agagagaggg	agagaaggag	gtggtgttgg	aggaagactc

B <b>141</b>	agagtcgaag	gcacacaaaa	catgcaatgc	atgagggatg	ggggagaggg	gagggtttcc
B201	tcctctcgaa	cgaaggcgcg	cccgcgtcaa	ggacgggcgt	gcgtcacaac	tccaccgtcg
B261	cgtgtgtgtg	ctgcaccgct	tcattttgtt	cttcctccgc	tgcccccgcc	ccccgccagc
3321 2221	cacgcgcccg ccggtgacga	tcgccgaaac	ggtgctcaca	dacdcdcasa	aatgtgtgtg	ccacaaadaa
R441	aaaggtgcgc	tactatcaaa	cacaactaa	gcgcccagcc	agatcacact	agactgctca
3501	ggtgcgcttc	accttcgtct	tgaggcggtg	ggcgagcacc	tcggcgagct	cctctttcgt
B561	gtgccgcggc	gccaactctc	ctggcaccgt	cgccttcccg	cttgccgcgg	cctgccgcag
B621	ccacgcgtct	acctccgctg	ctgtggccca	ccgcgtctcc	tcgtgccgga	acccgtcctg
868T	ggtgcggcgc cgacgtggca	agetegtaga	gtcccgcgtg	cgccgcctcg	caaccutcuc	caacataaca
8801	cccgacgcgc	cagtcgctgt	aggegtegaa	ctcaaacaac	gcaccatcgg	cacaataacc
B861	gtggacggtc	agcgatggcg	ccgccaccgc	gtcgtgcggc	gccacgtttt	cgtcgccgcc
3921	gtggtcgtcc	gggtgctcaa	acaagagctc	catcaccgcc	gcgccgcggc	ggttgaaccg
3981	cgtgcagaac	ttgttgccac	gaccgcagta	ggagttgtcc	gcgtctatga	tcgtgaagcc
4041 4101	gccgggctgg gtggatgccg	dactddadaa	cygygygrgrc	aacantnana	antatatant	gagggcatc
4161	tacgttcatc	accottccca	ccacaatcaa	atacagagacc	acaaaacqqq	ggtacacgta
4221	cgcgcgcagc	gcctcgccgc	gcagggcagc	gccgttcacc	caatcggaaa	aggcggcggc
4281	tttgaaccgc	tccaaggcag	cgagccagcc	cgtcgccgag	gtcgcagtcg	gcgtggttgc
4341	cacctcctgc	ggagccacct	ctggcagcca	ccactgccca	gcggtcacct	gctccgcgta
4401 4461	ggaggtcgcc gaaaagaatg	control	caacactaaa	ggcgccgccg	constotact	catantagac
4521	gcctccgggc	tgcgcgacaa	tqaaqaacqa	ggcggcaacc	acggcqtcct	cgtcatacgc
4581	aatgccgtcc	ctcatagcct	ccgcaccagc	tgcggggggt	gctgccgtca	ccgccccaca
4641	cccttcggtc	atcatggctg	ccatctcgcg	cagctcctgc	cgccggtgag	caaaggcgtt
4701	cgggccgccg	agcttgtact	gcaatgccca	ctgcaggaaa	gaaacggcgt	ctgcgcgcag
4/01 4821	ggtatcgccg gccgccctgc	cattacastt	cttctcacta	tenetacten	antannaant	ctcaatacca
4881	cagcgctgtc	accatcaaca	tcaccctaac	agtcttcatc	gatggcggca	gtagcgtgaa
	gacggcgttc					
5001	catggccatc	ttgttcacgt	cccggttccc	aagcagcagg	tgcacgcgtg	atgggaagcg
	gcgcttgaag					
5181	gccaccaaag tacaagacgg	caatacccc	actcatanac	anccatanca	agacgatage	taataatata
	cagcgcttgc					
5301	cgcgacagac	gacagggggg	ccaccgatca	ttcgcggctc	tcgagccgtt	gctgctcccg
	gcggaagggt					
5421	cgcgagagac	agacgaagcg	ctgaaagtac	gcaaagtccc	tgaggaggtg	cgttacgtag
5541	ctgatgcggc gggtcaccga	aacacataca	ccacctccac	cagtgcttcc	atcacacaca	tocacacaca
5601	cacacacaca	gacagagaga	gagagagaga	gagagagcga	aaggcccgca	gacgcgctgg
5661	gagggggtgg	gtggtcaagt	agcgtgaaga	ggcccttgac	tttcgagaag	agaggaggct
5721	gcagagaggc	ggtgcggagg	tcagcagctg	tgcacggcat	gcgcacacgc	cggttccttc
2/8T	gcagcgcgcg ggggccgcgc	caccagagagag	caagagagag	aagagggtca	ccaattccaa	aattacaaa
5901	gggcgtgctt	caccagegge	ttcatttacc	actgaagccg	cacgacgcg	acgaggtcca
5961	gacagaaggg	ccgcgctccg	actcgacttc	gcctccgccc	cagggtaagg	cgctactttg
6021	gcgctggaga	cgcttaggaa	gccctgcggg	gtcagacggc	agacttcgtc	gcagctgctg
6081	gccgtcttcc	cagcgaggac	gcggggatga	ttcaccaaag	gtgcgacgga	gcgggaaaaa
6201	tggtagcaag ggcccgtgat	accatatca	anancateca	ttctcgaacgc	cecetencet	cctctccctc
6261	agtcggcgag	gcagacggat	ccaacggcac	gcataaattt	atatatatat	atatatatat
6321	gtgtgtgtgg	aggtggcctt	gcgtcaagac	tcgcacgaag	gcgtttggtg	gcacattttt
6381	ctcctgttgt	tgccgccctg	agtgctcgcg	ccggagcctc	ctcctccgcc	cacgtgtcgc
6501	tgttgttttg	gggtgggggg	ggggtctctg	tgactcgtga	tgacggcgtc	gcgttcggtc
6561	gaccggtgct gctactccgt	ccctaann	cctcatcttt	gatccaaaaa	gcaccaanan	cgaaacacca
6621	tccgtgccgc	gcatgcgtca	cgaagaagtc	gaacaccgcc	ttcgaggcgt	gcacgctgtt
6681	ctcgttgccc	gggttgccgg	tgtcccgggc	gaacgcggtg	ccgtattcgg	tcgataggct
6741	gctggaagca	gcttgcatgg	tgcctcctcc	cagctggtga	acgcttcacc	ttcatcacct
6861	ggtaagccgt tgcagcagcc	tegenttact	ccttatcact	accaccacc	cacagececa	ctécacacaa
6921	catcgaggga	ttccggcaaa	agacaattca	gtgatgggca	tacaacttac	taaccatatc
6981	gacgccaggc	gatgcggtcg	attctcgaca	caagccgctg	cgccacgtgg	tgacgagcac
7041	tgccqttggc	ctggaatagc	ctgttcctgc	tgaggcgctc	gaaggctgct	gcggatgact
7101	gggggagcgt	ccgtaggtcg	tccttcggtg	tgacgcgagc	cgcgatggag	cttgttctgc
7221	ttgcggtgaa gcttggcgna	cccgtcgct	gageggtaeg	ggrgragege	canntnaann	atttcgacat
7281	gagaaggccg	cccctcccta	gaccccccaa	tggacccatg	gaggatgaa	tacggcctac
7341	cacctgtgca	gtcgtcgggt	gatctatgca	agcatgagag	agagggcatg	ccggctgtgc
7401	tgcaccagcc	tgtgcacggg	gactatcgtt	cgggtccgat	caggcgagct	cgactcggga
/461 7521	cggggccccg	cttgtgacgag	gaaaaccatc	gccgaagagc	ggatgctggg	gtcgctcgct
7581	gagaaaggtg cggagaagat	ctcctatcct	yaycayaayy teettaaaac	ggcaatcaac	tactcacaaa	ctgactgtgg
7641	aaggcacagg	aagttgcaac	ggcagagcgc	gatgggtagc	tggctgcacc	cactgcccaa
						_

17701	ggcgagactt	cetegeagta	cacataagcg	tatcasaaca	anctenatae	cactactaga
17761	aaaaggacag	caataataca	catacctata	tacctgccgg	ggttggcaac	accaaccaac
1/821	gtgtgcagat	gcgtgcggag	aggaagacac	tcgcggaccc	cgccacaaga	tgcactagcg
17881	agcgcggtga	taggcggccg	caccggcgga	aggacacata	tacacacacg	taggtgctgc
1/941	gcgagtgcgg	cgattcggtt	gcacgacccc	ctcctcccc	ccaccccaag	cggagcgcgc
18061	aggtgaatcg cgttacgtga	catggacage	ggctataatg	acacattett	graggerega	ggagggtccc
18121	atgtgcatgc	accacaattc	ataaactaat	attatacata	tgaaagagag	agagagaggc
18181	agtgtgctga	aacaggacgc	gtgtgcccga	tcactcgtga	tcgcgcggct	atacqqtqac
18241	accgtagacc	gtgatgatgc	agtgcatggc	tttattctcc	gccttgtaca	cgtagcacgc
18301	atcactcgtt	gggttccatg	agcacgacga	gattgtctgc	acgccagcgc	cgtttttctg
18421	gaggattgtg caccacctga	tennanatnn	cgcaccigcg	accaacastc	ttactatact	cagccgctg
18481	ttcgtggctg	aagagcgcgt	tgacgacgtc	ttcgcagatg	acqqaqqcqt	catcgaccaa
18541	cgtgatgcgg	tcgccggagg	ccattctaaa	caccaaacac	caacaagaag	cagoggogca
18601	gccgaccgaa	aacgaaaaag	atcagcggct	ggtggtggtg	gggtgcagcc	gcaagtgcgc
18661	gtgccggtgc	cggtgccggt	gccagtgcca	gtgccagtgc	cggtgccagt	gccggtgttc
18781	gagcgtgttg cgaaacagta	gaaagcagct	agageegag	gagatgcgca	gcagagacgc	gagatgacaa
18841	atacatacgt	atatatatat	tagageegaga	gaaggaggag	agggggtgg	atacacaca
18901	gtagcaggca	tgactgtgtg	gtacaggcgt	ttcgatgcga	tcctqqqcaq	cacqqaacaq
18961	catcgttctt	atggaacgca	atgtgcggct	ggggcgtcca	gacagaaaag	gcatacgggc
19021	gcacaagcac	aaggatgtac	cgcaggacga	caacgacagt	ggccgcggac	gcgatgaaga
10141	ggagtactgc nnnnnnnnn	nnnnnnnnn	กบบบบบบบบบบ	UUUUUUUUU	nnnnnnnnn	nnnnnnnnn
19201	ccctccccc	acttctcctc	tctacatcca	totettteet	ctctatatac	taaacaccta
19261	aaagactgtt	gtccatgtcc	acagcgctgc	cacccatacc	cggcacaact	tcagcagcgt
19321	tacagcatgt	tcgctgcgac	gagttggtcg	atgcagccct	gcacgtagct	ctcccgccgg
19381	gggtcaaggt	gcatggctgt	ctggtagtgc	tgcagggcct	cgtgtggacg	ccqcagacac
19441	accatgcatt	ccgccaaggt	cacgtacacg	acagcttcgc	cagggcactg	caccagcagc
19561	gccttgagct tgccgtcgcg	ctataacatt	attennatat	cactccaaca	gcagcaggac	greggegege
19621	gccgtcttga	ggtcggcaag	caacttaccc	taacaataat	acatcaggga	gaagcggttg
19681	acgatggccg	gggtcgggtt	caacttcact	gcctccttgt	agtacccccg	caccttatca
19/41	atctgctcct	cccgcatgaa	gcgctcccca	aggccagcgt	aggcaatgta	gagcgacgcg
19801	tccacggcga	gcgccgcctt	gaactccgcc	tctgcctctg	ccttgctgtc	ttggccgagc
19921	agctcgtacc ttcagcatta	ccaagggc	gracagagatee	gccagcgrcg	gcgccacctg	cacagecege
19981	cacagggtgg	taacactaaa	caactcaaca	tcaataaaac	attacacaaa	actacccaac
20041	gcactctcac	ttttcaggtg	ccacaaagcc	gtgctgtaga	agatgagtgc	cagattcatc
SOTOT	agctcccacg	gcgcggtacg	cagcagctgc	tcgaaggcgt	ccgcgctctc	ctgaatatcg
20161	ccgttgtgga	agtgggcgag	ggcgagctgg	cggagcagcc	aaggcgatgt	ggtggatgcc
20221	acggcccctg gaggacgaac	deaceataac	ageacacact	ragecettee	acagcggcgc	agaagaggag
20341	gacgccgatc	ccagcactac	cactaccact	cactattact	actactetta	naccancanc
20401	gcgtgaaggg	cttccactgc	ctctgggcag	cggtaggtaa	taccgaggaa	ggcagcgtgc
20461	aggaacggcc	gcaggtgctg	ctatacacac	caccactact	ataccataaa	acgagggct
20521	agcagcgtca	ccgccgaagg	gcctgttcgc	accagetgeg	tcacatacaa	tgagacagag
20361	gcagcactat ggagcacgct	ggctaccacc	actgccgcta	gcgagagcag	caacagcagc	ggcgctgcat
20701	tctcggccgc	gacgctggg	aggtcgttgg	cattactata	ataactccat	nacatonaco
70/0T	tccgcaccat	cttcttcctc	gatcagcgac	gtcttcacag	caagcagcga	ctgcaccacc
Z0821	tgctccgacg	gccacgccaa	.gtqcacqtat	tcctagaaca	catccagacg	aagcgggttg
ZOSST	gccacgtagg	cacaacacaa	atactcaacc	acaatcaaat	accactaaca	atacttctca
21001	cacagaccca cgcaagctgt	ctctccataa	caccigegaa	taccaccaca	ccgtcacgaa	ggcacaggcc
LCTOPT	catatcacta	cacacaatca	cctactacta	ctactaacaa	anctactaca	acctccacca
Z <b>T T</b> Z T	aayaacqcta	gaggttgtgg	taacttaata	acacacatac	adcadctdcd	acadeacect
2 1 1 0 1	<b>44C4CC4CC</b>	LLULAULULL	ucutucuuta	ucaucacaca	CCGAGGAGGT	actuucaatc
<b>4</b> 444	CCactocoac	тосаоотсаа	CCUTCTCUTA	accesactea	aactcotcco	anntnanntt
21301	gttctcgttg	tacascagetg	agaacgttac	agctgctgtc	gccgagggca	tgcccgacga
<b>24421</b>	aaacggatgc gggaaggaca	CCOCTOCCCA	CCCCCCTAC	CUCTCCUCCA	acaacactta	tanaancacc
7140T	ayccycccyc	galcalatca	catacaactc	caddaaaddd	tagtagtgtt	acaacaacca
ムエンマエ	<b>utatuttutu</b>	CCUULCUCCE	Lactuatuui	OLAGCAGLOC	ocoaocanor	ocanorococ
<b>5 TOOT</b>	graggacgcc	iccadatcaa	adaddcdctd	caccaactca	atddcdtccd	totacaoota
7 TOOT	CCCyyayayy	CICICIACA	Cactoocott	gaggergere	agaacatcgc	TCGagatgga
21781	aataacacat	ggcgaagccg	tatocoacoc	ggagggcagc	ggcggcgtgg	cgacatcagg
Z 1041	accagegegg	acqaaqccgt	atutatucac	acaaacacac	atattaccac	caccacaaca
とエンしエ	Lyayyyyccc	yatututaua	LLUULUALUA	Cuacuucuai	uauccuuaru	at concacoa
<b>7130T</b>	caaccccac	uaatacacac	ccctacctac	cccacaatac	attccaaaaa	aancncncnt
ZZUZI	gracagataa	ccqqtqqaaa	cattadacaa	addcddcddc	aacaacaaca	acattactaa
ZZU01	cattgtcaag gagcaggcgg	grgryyccic	LCCCAGGLCL	CCCLLGCacc	atcatcadac	ttaaccaaca
22201	gtgcgtgtgt	gcgtqtqcat	gtggaaggg	qqqqqaanan	agccattaaa	acgoogagag
			ِ جِردِد دِد دِ		J J -55	בייפי-פפני

22261 gagagggtgg	cotangatan	agacggaggc	annonttoat	nacantaano	cacassacts
22321 gcggcagttc	gagagggaga	tcqccqqqqa	gaagcatcca	cagcaacgc	cacacccctt
22381 CCCCTCTacc	ctacacacat	gtcgacttcg	tataacaaaa	gaggcgctcg	agcatcattg
22441 caccatgtcg	catcgttatc	ttttccccat	cqaqaqttcq	gttcacatga	caadadcaac
22301 gcaccaataa	gcagttcgca	ttttcggcgt	ccccgatttt	tccacacacc	actccccca
22561 cgacgaagag	ggaggggaca	tatacacgcg	cgcacacgca	cacacacaca	cacacacaca
ZZBZI CCCCGCagcg	cggggcccag	cgaccccatc	ccctatacac	gaggggaagc	caagcagccc
22681 cccaacccct	tccaatgccg	aaccgccgtt	ggcggtgacc	aggccgagca	cccacgacgt
22741 agcgccgccc	gagegacegg	cgacagtgaa	cacgcccgcg	ccaccccgcg	agcgatgcac
22801 cgagggtgtg 22861 ctgcgccgcg	catacctctc	cacquetace	teacgegggg	arggeragae	cggcgcgtcg
22921 gccggggatg	gaaaggaggg	acacgattga	ntancatanc	atttaacete	atataccate
22981 gggcagagtg	caacacaca	ctggaaagga	gaaggaagga	aatctatcat	tetacanata
23041 tcacacacac	acacacacag	acatatatat	atatatatat	atatatatat	acacgcagct
23101 gctgcttacg	ccatgggaga	gagagtatac	atatatatat	atatagatat	acatatatat
23161 atacacgcct	acttcgctca	cqcaaacqac	accacaacat	ctttattttc	ggcaccgcfc
23221 gccacgtttc	gcgtgtcgct	gtcggcggac	gtcggctgag	acaacaactt	atactcaata
23281 cgcgccacct	ccgagtagcc	ttgcgtattg	cgaatgtggt	agagcacgtt	aacattatta
23341 aacatgccat	ccttcagcga	caccagaagg	aactgcgaat	gggggaagta	gagctgcagc
23401 atgcggccaa	caaaacaaac	grageraggg	tcgagggcag	cgtctacctc	gtccaggatg
23461 tacagcgggg	cactazacte	gcycayyacy	gccagtatga	ggcacagcgc	cagcagcgag
23521 cgctgaccac 23581 acaccgaggc	cactgagete	atteaceaca	tegeatteet	ctaggggaa	ggagacacgg
23641 ccaggcagac	aggtggcaaa	gagettaceg	aagatggag	tracracrec	aaccatacaa
23701 tccagcgcgc	cccacttctt	caactcaatc	tcaataatac	agcgctggct	cactteetta
23/01 (CCCCyccaa	gggcggtgcg	ctgcttgaca	agttcctcgt	actededded	ccactcctca
23821 tacagaatag	cagacttctg	cgagagtttg	ctcatcatca	cddcadcacd	cacttcdatd
23881 tegegeaget	cctgcaggat	aaccaccata	cacaccacat	cactaaaatc	atataaacca
23941 Colggitgat	tgaatgtggc	ccgcgcctcg	aggagccagc	tataacacta	ctccacctca
24001 tgaacgtggc	ggcgcaggct	ctcgaggcac	caactctact	ctcacaaccc	cacttcacca
24061 ttcttgacca	ggttgtccag	cgtgaccttg	cgctccgcga	agcgcgtcag	ctcctcctgg
24121 gcgtcgtcga	calculutt	cagccgctgg	cgccgctcct	cgttctgctt	agagcgcgcc
24181 tgcaccgccg	gcaccatate	ctcctccata	tettacattt	ccgccagctt	cagcttctga
24241 ctctgttgct 24301 tgctgctcca	tatctacctc	dadtcdctca	aactccacca	caccacacta	greegeegee
24361 gtcagccgcg	ccacatagac	ctccactaca	accedegecy	conceattte	ctactannn
24421 nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn
24481 nnnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnccaa	addtccddca	ocoatacaca
24341 CCaacatacc	aacatacata	cacaccaaca	cacatoocat	accaccacta	caddcdactc
24601 tetgeeteae	gatgcgtgca	ataatactaa	atootoocta	daadddaddc	aagggtgcag
ZHOOL CHUNGCHC	yccayaaqac	ggacgtgtaa	gatcggtctc	adadaccadc	aaccacaaaa
24/21 tyttaggggt	qqqcqqaqqa	aqaqqaaqaq	agaggaaggg	agagggggca	gacggaaagg
24781 cgaagcggta	ctcaggergaa	gctgtgaggg	ggagaaatgg	atgagcggag	ggctcctcaa
24841 cctgcagtgg 24901 cccattcccg	cotaggcaag	cagaggagaac	gycgycaacg	aatccctccc	gctccccgcc
24961 tgagctgtgt	attaccettt	cactccacac	acygygatyg	agggcgatgg	alggagetgg
25021 ggatggggg	ggagagaga	aggaggagga	gagacagaga	naccacaatn	agaggegeeg
25001 LLLGCCLGAA	aaggggagat	gacactaaga	ddadaadtdd	agatagaact	taganggacg
ZJIHI acyacyyaaa	accatcagat	gagatgtcaa	adaccaacat	actacaccct	atctcttccc
ZOZUI GCCLLCCTTC	TCCCCqccac	tctttataca	tctcagaccc	tttccaatta	ccaactacgc
ZOZDI Gadacqqacc	ccacatatac	dacdaaddta	cacacacaca	cacacacaca	Cacacacaca
ZJJZI Cacacyctyy	CICCCCCTTC	ctcaacacac	ctccatgaca	ctcctacacc	cactccctcc
25381 tccgtatcac	agccactgct	ctgactacta	ctactagagg	ggagagagaa	aaaaatcgag
25441 tgaaaggcgc	actcacacac	acacicacac	açacacacac	acacactcac	acacacac
25501 acactcgctc 25561 acaacatcgg	acceacacac	Cuucaacaua	aannttaana	taggataga	cgatgctcgg
25621 aaagagtggg	gagacgcgtc	aaccototct	ctocaacata	ncontacaca	gaayayaayy
LJUUL CAYCACAAAC	auaccuacuc	accttcctta	Tacatetata	actacacttc	ttatctccca
ZJ/41 CYCCCCCCCC	LCALLACACT	CTTCCTCatc	adcacdcctt	ccccctcac	ctctccatca
LJOUL LACAYCAYCL	Lacuadatto	acaacttcac	COCCTTATCO	ntnnccatac	ccancancta
ZJOUT CLUCCLUALC	acacaccata	tactccacac	CCCCCACCCC	atacaaccaa	ttcaattacc
AJJET AGILLELLAL	gateteetee	acaaacooco	acateaacte	Canchachan	aanacnnanc
23301 ggcggccgac	Calcacuucu	acdataaada	Taaaaaaaaca	CTTCOTOAGA	aancotatoa
ZUUTI ayacyayaay	quequequadq	atcaaatcca	taataaccat	ctaacccaaa	otcadataco:
LUIUI CCACCICACI	CCGaaacttt	atccaccaat	acaacaacaa	cacccactac	ccatccacat
26161 actcgcgcca 26221 gcttcagcgg	ctcatccata	gryaryrcct	accttataca	cgcataagcg	tcgatgtgcc
26281 agggctttgc	tagcococo	actaecence	traturters	atcaaggcacc	yycaccgtga acctctacct
ZVJTI CYCYCLLYCL	gallgclata	gagagggtgg	TOTOTTOAGO	nagngagaga	nanannnnn
ZUTUI ayyyyayyyy	geggegaega	Taacaacaaa	tdaacddaca	cacacantaa	aacacdatat
ZUTUI GLAGILICACI	aaayatuatu	taaatacaaa	TOCOSTOTO	atatatatat	atatatatat
ZUJZI GLYLYAYLYY	aayaaycgaa	aataccatca	aaaaaaaaaa	adcadaaadd	cattocoana
ZUJOI CYGAYCCGAA	ayyyyyytaca	aatacaaaa	dcatcacdat	accaaatcct	taccatatca
20041 taaayyccya	aacaqcctct	caaqqaaaaa	aacaaggaaa	ddaacacccd	cacaattaat
20/UI Cyycaacycc	aggigtaaag	gatgggcagt	CCTCCGCacg	actecacata	ttaaacaaaa
26761 gagtagggag	ycaaacaaga	agccctcttt	tcatggccac	caccgtgagg	tgagtgtgag

26821	gtgggggaga	gagagagaga	gtcaggcgca	cacacacaca	aacacacaca	agcggtgatc
7088T	gtgagagaaa	ggagaacaga	gctcgctgct	gtgcacacaa	cagctctcgc	ctctacatcc
26941	gcgcccccgc	ccatttctct	gccatctcct	ctgcgcggcc	cccqccqctc	acgcaccacc
2/001	agctttaccc	atcgttcacc	cgctgcattc	ggcaacgagg	cgcagtgcgc	cgctgattac
2/Ubl	ttccttatgg	atgcatacat	tctctttcct	gtgcgcgcgt	cgcgcttgac	cgtagggata
2/1/1	agicacgaag	acgtagcgaa	aaaacgcgac	gaagagcaca	ccttaggggg	ggggagaggt
27101	gatatggggc	Cataccacca	catcatcccg	cgcicataca	ggcccacata	ctcccacaac
27301	cccnacacan accaaccaca	caccacaccc	caccaccac	cctcccccc	cetetatece	tageactact
27361	ccttcccctg	tacatctcac	ccaaaacaac	cacatcacac	aactagteed	cctctactat
27421	tttcatcgcg	tcqctqccqt	ttctatacac	gtctcaagct	tcgaaaagga	gacgtgcagg
27481	agtgggggag	gaggggaagg	ggaggcggcc	agtaacaaga	tccagagggg	cgaccggtac
2/541	aggtgcacac	gcgcacttgc	gcacgaacag	gactgtacgt	aqaaacatac	atacccccac
27601	acgcacacac	acgagttgac	catgacgaaa	gaagggggaa	gcagaaggaa	ggggcggggg
2/661	ttacgagtgc	cgaagagcgt	cgcgacaacg	atgatgatag	cgaggataga	ggcgaaggaa
2//21	aataaagcgg	aaggcgaggc	gacaagagca	gacacacgaa	gaggttatat	atatatatat
27841	atgtgtagat gtctgtgcgt	ttatatatce	tacutuacca	ctacacatta	cactetetet	grgrergeer
27901	ttccctcgcg	cccctctcc	ttactatttc	accacactcac	actttctcat	tatateteat
27961	atcttaacac	caacgcgcac	acagacacag	gaacaccact	acacacaca	gcacagactc
28021	aagcagcata	tgcgtacttc	atgcggttca	tcgcatgagg	acaatacata	tttactctta
5808T	cctgcgccgg	tgtcttgctt	gcttgttttg	cgtcagtttt	tatccttcat	atcagnatac
28141	gcacacacac	gcatatacat	acatacatat	atatatatgc	atatgtatac	atatatacat
28201	atatacatac	atatatacgt	atacccatac	atgtgtgtgt	gtnnnnnnnn	nnnnnnnnn
2820T	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn
20321	nnnnnnnnn	nnnnnnnnn	nncaaaaacc	accgccgctc	attgtaccaa	caggcaacca
28441	ggacacacac cgccctccct	cccccccc	cccacacaca	cacateteta	ctacacatac	geteceteet
28501	tcctgcttct	gaggcctctc	cccacacaca	cacacccccg	acaccaataa	candintnat
28561	attggtgtct	acacttacca	gcagcagata	aggacacatt	ccacactata	gagaggtgac
28621	atcťčtýcca	agcgcaccca	cgcgtcggca	gatgtgcgca	caacaaaata	cacccacaaa
2868T	ccctccgggg	aagcagaggt	ggggatggac	tgctcagccg	catgccgtgc	tcatcaagat
28/4I	gcatcacctg	cgtgtacgtg	cttgtctacc	gtacagacgc	tgattcaact	catccttatc
<b>5880T</b>	ccccccccg	cactgctgct	cqcctaacac	ccacccqccc	acaaccacta	ttatatacac
28801 28021	ccacgcctcc	ttcttccggc	gcccccccc	accaccacac	acacacacac	acactcgcgc
28921 28981	gcattccacc	dataccaaca	tacgcgccat	cgcccactcg	gctgctggcc	ccctccgtgg
29041	ggcgtctccc cggccattcc	gatactaaca	atacettage	aactctttac	rerecesse	agececee
29101	ccacccaccc	caccettece	ctcctccca	tgaccacaca	agcatcatac	agccccccc
<b>53TPT</b>	ggcccagtac	gtggcgcccg	ccatgggacg	ccttacatca	acquetacta	ccaacaaatc
29221	Lyccycyccy	ggccagaagt	cgttcttcaa	ggcgacggag	atgatcggct	acatacactc
Z9Z81	gatcgacggc	acgatcgcga	cqctgatccc	cacaccaaac	aaccccaaca	ttocotacaa
Z9341	cacgatcatc	atgatccagg	tgagcccgac	gacgttcgcg	acaaaactta	tattcaacct
29401	ggagaaggac	ggccggatag	gcatcatcct	gatggataac	atcacggagg	tgcagtccgg
29401	ccagaaggtg	acygegacyg	gcaagetget	gracatecec	gragggracaa	gcgtgctggg
29581	caaggtggtg gctgctggag	anchaacana	coctoocaa	getygeggg	agegegege	ggicgcgcgc
29641	gcgctcgcca	gtgaactaca	acctoctoac	caacttcaaa	ggegegeega	coatoatccc
29/UI	gatcgggcgc	ggccagcgcg	agctgatcgt	aaataaccac	cagaccagca	agacgtcgat
79/0T	cgcggtgtcg	acgatcatca	accaggtgcg	cagcaaccag	cagatcctat	cgaagaacgc
Z 30 Z T	ggtcatctcg	atctacqtqt	cgatcgggca	acactactcc	aacgtcgcgc	gcatccaccg
<b>7988T</b>	cctgctgcgc	tegtaeggeg	cactacacta	cacaacaata	atggctgcga	caaccacaaa
20001	gccggcgggg	ctgcagtacc	tcgcgccgta	ctcgggcgtg	acaatgggcg	agtacttcat
30061	gaaccgcggc	tenetactac	tacaccacca	cyacgacctg	Legaageaag	ccgttgcgta
30121	ccgccagatc gttctacctg	cactenence	tactanagea	gregggeege	gayycgcacc	ciggtgatgt
OATOT	cggctccgtg	acggcgctgc	caatcataga	dacdctdtcd	aacgatgtga	caacatacat
30241	cyccacgaac	gtcatctcca	tcacaaacaa	ccadatctac	ctagacacga	anctottcac
OCOUT	Cygcggccag	cacccaacca	taaacatcaa	cctatccata	tracaratra	acteateeac
2020T	gcagaacgtg	gcgatgaagg	caataaccaa	caagetgaag	aacateetea	cadaatacca
2042I	caayctqqcq	ucquactcua	taaacaaaaa	ccaddtacad	acontoccoa	taatccacaa
2040T	cycycyctic	accacactat	tcaaccagaa	daacccdtcc	TTCTTCatga .	acacactcat
30601	gtcgctgtac	ctactaataa	acgggtacct	ggacgacgtg	aaggtgaact	acgcgaagct
30661	ctacgagtac gttcttctac	atgreggega	acaayyacct	ctacataata	cacttettes	cgacgaacaa
30/21	cccgatcctg	aacqcqqaqq	tadaddadat	actaaaacaa	cacacacacc	tattectaea
2010T	gcactactag	legaagatga	acqcqatcaa	dacddadaad	gagatcaagg	cactcaaaaa
3004T	ccigcigiac	lcalgcaage	acaccatcta	adcacaaaca	accataaact	tacatacaaa
20201	agigigigigi	caatatatcc	adcacdcddt	ttgattcggc	acaataacac	tacccacatc
POROT	gcatctggcg	ccttacgcaa	cccaccccac	acccactcta	cctacctcdd	ataaacac
STOST	acacacacac	acacagacag	acacacatat	acccacactt	cacagacgcc	aaggtagact
31141	cgacgtgacg	cacaddeeg	tgatgagage	ggaacgaaag	ccggaggcaa	gtggtggaac
31201	taacaatacg accgaccttc	tttatttcac	ttttctaatt	ttatcascta	acyattidac	ggtgatcgag
31261	tcgcggaggg	qcqqcaaaca	gcaggcantn	ctcataaata	taggagaaag	gaaryyrtää catctccc++
31321	cgātītggīg	tgatcctctt	ccaccgcccc	ccctccctga	tgtagcacca	gtagtagtag
*			J	<del> </del>	J	J J J

```
31501 cgttcttgcc tcgactctac tttgccatgc attcacccag gtctttctcc gtggccgact
  31561 gcagtagtga cctgcgtgta cacgcgtgcg cacacaccca cataagcggc ctcacccgga 31621 cacgtccaca tacaggcaag catagaagac cacacacgag caggcacata ccccacacca 31681 ccgcatagac gcagccgac aggcgactgg cgcgcatctt ttagagcaac cgcacccct 31741 cccatccct accgctcaca ctacacac caccgcctta ccgcgcgcacct
  31801 gccgccgccc ctgaccttgg caccatgcgc gtaaagagca tcgtgattga cggcttcaag
  31861 tegtatgege acegeaagga getggeggae etcageeege actttaaege cateaeeggt
  31921 ctčaacggča gtggtaagtc gaačatčttc gacgčcatčt gttttgtcat gggtatcacc
  31981 aacttgaagc gcgtgcgcgc cgaggacccg cgggagctga ttttccgcgc cggcacgacc
  32041 ggcgtgcacg cggcgcgggt gacgatcgaa tilgtgaacg atgaccccgc ciccgccccg
  32101 ccgggctaca gctgcgaaga gtatccgctc atcaccattg gccgtcagat caagctcggt
  32161 gggaggcagc agttcttctt caacaacacc gtgtcgctac agagcaaggt gaagcgcttc
32221 ttcgagagca tcagcttgaa cgtcgacaac ccccacttca tgatcctgca ggggattga
  32281 cacaagctga tcggcatgcg ctcgcaggac atcctgtccc tcatcgagga ggcggtcggc 32341 acgaaggcct ttgatcatcg ccgccgcacc gccgagacac ttatccgcaa caaggagagg 32401 aagatggagg aaatcgacac gaacaatcgag gcacagatcc gaccgctgct ggagacgatg 32461 cgggccgacc aggaggagata caaccttc atgcagatcc gacgagaagat ggaggaaaag 22521 ctgcgcttcc gtgtcgcct ggagacacct aggaggagaaga gagagaaga
  32521 gtgcgcttcc gtgtcgcgct ggactaccac acgcatcgca cgcagcacgc agaggcggag
  32581 gcggcgatga cggcacgcaa ggccgatgtt cagaacgcca agacgcagct gcaggcactg
  32641 ccgcgccagg aagaggaggc agcgcgtcga ctcttgcagc tgcaggactc cctcagcgct
  32701 ccgagcgagg cagcatcgc gctgcacgag gaggaagatg aactgaagaa ggcgcacagc 32761 cgccttgaag gtcagctggg caactgcacc aagtcgctga agcaactcga gacacagctc 32821 aagagtctgc ggaaggagca ggagaggcag agcagcagcc aggcagcctt cgcggcacgg 32881 cagcgggagc acgagcagct gctagcgcag attaaggagg gtaaaggagc atgcgcgaag 32941 ctgaagaagg gtctcaagc cgtggacctg ggtgtacagg ccggtgcctc gggtgtctcg 33001 ctcgccgagg agaggcagca ggtggacctg cagctcatcg agcagcagtc ggcggtggg
  33061 cgcgccacag accggcttga ggaactggtg aagcagcagc ggcgggtcga ggcgcaccag 33121 gccgaggaga gcagccgcgt gcgccaccta gagcgcgagt acgccaaagc caccgcgtct
  33181 čtogagaagg čaaaggoggt gtacacacog ťtggogotga agcagoagog gaaggaggoc
  33241 ctcgaggccg agatctcgtc gctgaaacgt gagtgccagg ccgagtacga gaacttccag
  33301 cggcaggtga gcacggcgac cgcgcgcaac tacgacctcg actacaaccg ctacgcctgc
  33361 ccaccogaca oggaggacaa ggtgcttggg cgggtcggcc aactcatcac tccgaccgat
  33421 ccacagcacg cgctggggct catggttggc gcccagaacc agctgctacg cgtcgtcgtc 33481 acggacgatc gcgtcgccga agcgatcatc cgcagtgggc tacggcagcg caccgcgttc
  33781 gacgcgtcca tcaaggcgaa ggccgtcaca gtcgagggcg aggtggccga gccgaacggc
33841 ttgatgacgg gcgggtcgac gcggcagcta cgcgacgttt ttgccgacct caagacatac
  33901 accgctcaga aagagccgct caaggcgctg cagcaacgca cgcgcgcgct ggaagtcgag
  33961 tacgccgccc tgcgcgacac gctccggcag caccagcacg acatccaagt atacaagaca
34021 gcagaggagg cggcggagct atcgaagcag cgctacatcg tcgccgctaa cagtgcgcag
  34081 agtggtgcgg ccgagcaggc ggagcagatc gagcgcgagc agaccgcgct cgccgaggcg
  34141 cgcgagaagg tggagg
L5
        ANSWER 104 OF 154
                                         GENBANK .RTM.
                                                               COPYRIGHT 2004 on STN
LOCUS (LOC):
                                      F202078514
                                                             GenBank (R)
GenBank ACC. No. (GBN): AF202091
GenBank VERSION (VER):
                                      AF202091.1 GI:11055242
CAS REGISTRY NO. (RN): SEQUENCE LENGTH (SQL):
                                      300759-63-1
                                      400
MOLECULE TYPE (CI):
DIVISION CODE (CI):
                                     DNA; linear
                                      Primates
DATE (DATE):
                                      6 Feb 2001
DEFINITION (DEF):
                                                             ***hypocretin***
                                     Homo sapiens
                                                                                              ***receptor*** -2
                                      (HCRTR2) gene, exon 7 and complete cds.
SEGMENT:
                                     14 of 14
SOURCE:
                                        ***human***
 ORGANISM (ORGN):
                                     Homo sapiens
                                     Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
                                     Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini;
                                     Hominidae; Homo
NUCLEIC ACID COUNT (NA): 118 a
                                                   83 c
                                                              75 g
                                                                         124 t
REFERENCE:
                                          (bases 1 to 400)
                                    Peyron,C.; Faraco,J.; Rogers,W.; Ripley,B.; Overeem,S.; Charnay,Y.; Nevsimalova,S.; Aldrich,M.; Reynolds,D.; Albin,R.; Li,R.; Hungs,M.; Pedrazzoli,M.; Padigaru,M.; Kucherlapati,M.; Fan,J.; Maki,R.; Lammers,G.J.; Bouras,C.; Kucherlapati,R.; Nishino,S.; Mignot,E. A mutation in a case of early onset narcolepsy and a generalized absence of ***hypocretin*** peptides in ***human*** parcoleptic brains
    AUTHOR (AU):
    TITLE (TI):
```

***human*** narcoleptic brains

```
JOURNAL (SO):
                           Nat. Med., 6 (9), 991-997 ( ***2000***
   OTHER SOURCE (OS):
                           CA 133:348631
REFERENCE:
                              (bases 1 to 400)
   AUTHOR (AU):
                           Faraco, J.; Rogers, W.; Overeem, S.; Li, R.; Mignot, E.
   TITLE (TI):
                           Direct Submission
   JOURNAL (SO):
                           Submitted (05-NOV-1999) Center for Narcolepsy Research,
                           Department of Psychiatry, Stanford University Medical
                           Center, 1201 Welch Road, MSLS Bldg. P112, Stanford, CA
                           94305-5485. USA
FEATURES (FEAT):
  Feature Key
                      Location
                                                Qualifier
/organism="Homo sapiens"
/db-xref="taxon:9606"
source
                  1..400
                                             /note="amplify at 58 degrees.
                                            R2-ex7-F:
                                             5`-CCCATCTTTGCAAAATATTACACC-3',
                                            R2-ex7-R:
                                             5 - CCTGAAATAAGCTCAATTGAAGGT - 3"
                  join(AF202085.1:51..587 /gene="HCRTR2"
mRNA
                  ,AF202086.1:52..230,
                  AF202087.1:51..294,
                  AF202088.1:51..166,
                  AF202089.1:51..271,
                  AF202090.1:51..172,
                  51..400)
                                            /product="hypocretin receptor-2"
gene
                  order(AF202085.1:51..63 /gene="HCRTR2"
                  6,AF202086.1:1..280,
                  AF202087.1:1..344,
                  AF202088.1:1..216,
                  AF202089.1:1..321,
                  AF202090.1:1..222,
                  1..400)
CDS
                  join(AF202085.1:365..58 /gene="HCRTR2"
                  7,AF202086.1:52..230,
                  AF202087.1:51..294,
                  AF202088.1:51..166,
                  AF202089.1:51..271,
                  AF202090.1:51..172,
                  51..280)
                                            /note="orexin receptor-2"
                                            /codon-start=1
                                            /product="hypocretin receptor-2"
/protein-id="AAG28021.1"
/db-xref="GI:11055244"
/translation="MSGTKLEDSPPCRNWSSASE
                                            LNETQEPFLNPTDYDDEEFLRYLW
                                            REYLHPKEYEWVLIAGYIIVFVVALIGNVLVCVA
                                            VWKNHHMRTVTNYFIVNLSLADVL
                                            VTITCLPATLVVDITETWFFGQSLCKVIPYLQTV
                                            SVSVSVLTLSCIALDRWYAICHPL
                                            MFKSTAKRARNSIVIIWIVSCIIMIPQAIVMECS
                                            TVFPGLANKTTLFTVCDERWGGEI
                                            YPKMYHICFFLVTYMAPLCLMVLAYLQIFRKLWC
                                            RQIPGTSSVVQRKWKPLQPVSQPR
                                            GPGQPTKSRMSAVAAEIKQIRARRKTARMLMVVL
                                            LVFAICYLPISILNVLKRVFGMFA
                                            HTEDRETVYAWFTFSHWLVYANSAANPIIYNFLS
                                            GKFREEFKAAFSCCCLGVHHRQED
                                            RLTRGRTSTESRKSLTTQISNFDNISKLSEQVVL
                                            TSISTLPAANGAGPLQNW"
                 51..400
exon
                                            /gene="HCRTR2"
                                            /number=7
3'UTR
                 281..400
                                            /gene="HCRTR2"
SEQUENCE (SEQ):
    1 tgaagcattt atgtataatt ccttttcctt tcattctctc tgtttgccag gaaaatttcg
61 agaggaattt aaagctgcgt tttcttgctg ttgccttgga gttcaccatc gccaggagga
   121 teggeteace aggggaegaa etageacaga gageeggaag teettgaeea eteaaateag
   181 caactttgat aacatatcaa aactttctga gcaagttgtg ctcactagca taagcacact
   241 cccagcagcc aatggagcag gaccacttca aaactggtag aatatttatt catatgacaa 301 ggatacctga gtaaaactat cctttttaaa atcactggga acagaaattt tattatccta
   361 tgatgtgaag ctaaaattac ttgtggatct ttttttttt
```

```
LOCUS (LOC):
                         F202078S13
                                         GenBank (R)
GenBank ACC. NO. (GBN): AF202090
GenBank VERSION (VER):
                         AF202090.1
                                     GI:11055241
CAS REGISTRY NO. (RN):
                         300759-62-0
SEQUENCE LENGTH (SQL):
                         222
MOLECULE TYPE (CÌ):
                         DNA: linear
DIVISION CODE (CI):
                         Primates
DATE (DATE):
                         6 Feb 2001
DEFINITION (DEF):
                                         ***hypocretin***
                                                                ***receptor*** -2
                         Homo sapiens
                         (HCRTR2) gene, exon 6.
                         13 of 14
SEGMENT:
SOURCE:
                            ***human***
ORGANISM (ORGN):
                         Homo sapiens
                         Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
                         Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini;
                         Hominidae; Homo
                                         42 g
NUCLEIC ACID COUNT (NA): 57 a
                                  39 c
                                                 84 t
REFERENCE:
                         1 (bases 1 to 222)
                         Peyron, C.; Faraco, J.; Rogers, W.; Ripley, B.; Overeem, S.;
  AUTHOR (AU):
                         Charnay, Y.; Nevsimalova, S.; Aldrich, M.; Reynolds, D.;
                         Albin,R.; Li,R.; Hungs,M.; Pedrazzoli,M.; Padigaru,M.;
                         Kucherlapati,M.; Fan,J.; Maki,R.; Lammers,G.J.;
                         Bouras,C.; Kucherlapati,R.; Nishino,S.; Mignot,E.
                         A mutation in a case of early onset narcolepsy and a generalized absence of ***hypocretin*** peptides
  TITLE (TI):
                                                                         peptides in
                            ***human***
                                          narcoleptic brains
  JOURNAL (SO):
                         Nat. Med., 6 (9), 991-997 (
                                                       ***2000***
  OTHER SOURCE (OS):
                         CA 133:348631
REFERENCE:
                            (bases 1 to 222)
  AUTHOR (AU):
                         Faraco, J.; Rogers, W.; Overeem, S.; Li, R.; Mignot, E.
  TITLE (TI):
                         Direct Submission
  JOURNAL (SO):
                         Submitted (05-NOV-1999) Center for Narcolepsy Research,
                         Department of Psychiatry, Stanford University Medical
Center, 1201 Welch Road, MSLS Bldg. P112, Stanford, CA
                         94305-5485, USA
FEATURES (FEAT):
 Feature Key
                     Location
                                               Qualifier
                                                               _____
source
                1..222
                                          /organism="Homo sapiens"
                                          /db-xref="taxon:9606'
                                           /note="amplify at 58 degrees,
                                          R2-ex6-F:
                                            `-GAGTCAGACCATCCTCTACCAATA-3',
                                          R2-ex6-R:
                                           5 -ACTCACATAGCACCTAAACTCCTC-3'"
exon
                51..172
                                           /gene="HCRTR2"
                                          /number=6
SEQUENCE (SEQ):
    1 ttgaatttaa ttatttaaaa gacacttttc tgttgtttct tttcctgcag agtatttggg
    61 atgtttgccc atactgaaga cagagagact gtgtatgcct ggtttacctt ticacactgg
  121 cttgtatatg ccaatagtgc tgcgaatcca attatttata attttctcag tggtgagttt
  181 tcaactgttc ttccataagc cacaattgta accaaggatg ag
    ANSWER 106 OF 154
L5
                           GENBANK.RTM. COPYRIGHT 2004 on STN
LOCUS (LOC):
                         F202078S12
                                         GenBank (R)
GenBank ACC. NO. (GBN): AF202089
GenBank VERSION (VER):
                         AF202089.1 GI:11055240
CAS REGISTRY NO. (RN):
                         300759-61-9
SEQUENCE LENGTH (SQL):
                         321
MOLECULE TYPE (CI):
                         DNA; linear
DIVISION CODE (CI):
                         Primates
DATE (DATE)
                         6 Feb 2001
DEFINITION (DEF):
                         Homo sapiens
                                         ***hypocretin***
                                                               ***receptor*** -2
                         (HCRTR2) gene, exon 5.
SEGMENT:
                         12 of 14
                           ***human***
SOURCE:
ORGANISM (ORGN):
                         Homo sapiens
                         Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
                         Euteleostomi; Mammalia: Eutheria; Primates; Catarrhini;
                         Hominidae; Homo
```

73 g

89 t

71 c

GENBANK.RTM. COPYRIGHT 2004 on STN

L5

ANSWER 105 OF 154

NUCLEIC ACID COUNT (NA): 88 a

```
1 (bases 1 to 321)
REFERENCE:
                              Peyron,C.; Faraco,J.; Rogers,W.; Ripley,B.; Overeem,S.;
   AUTHOR (AU):
                              Charnay,Y.; Nevsimalova,S.; Aldrich,M.; Reynolds,D.; Albin,R.; Li,R.; Hungs,M.; Pedrazzoli,M.; Padigaru,M.; Kucherlapati,M.; Fan,J.; Maki,R.; Lammers,G.J.;
                              Bouras, C.; Kuchérlapáti, R.; Nishino, S.; Mignot, E.
                              A mutation in a case of early onset narcolepsy and a deneralized absence of ***hypocretin*** peptides
   TITLE (TI):
                              generalized absence of 
***human*** narcole
                                                                                      peptides in
                                                   narcoleptic brains
                                                                   ***2000***
                              Nat. Med., 6 (9), 991-997 (
   JOURNAL (SO):
                              CA 133:348631
   OTHER SOURCE (OS):
                                  (bases 1 to 321)
REFERENCE:
   AUTHOR (AU):
                              Faraco, J.; Rogers, W.; Overeem, S.; Li, R.; Mignot, E.
   TITLE (TI):
                              Direct Submission
                              Submitted (05-NOV-1999) Center for Narcolepsy Research, Department of Psychiatry, Stanford University Medical Center, 1201 Welch Road, MSLS Bldg. P112, Stanford, CA
   JOURNAL (SO):
                              94305-5485, USA
FEATURES (FEAT):
  Feature Key
                         Location
                                                        Qualifier
/organism="Homo sapiens"
/db-xref="taxon:9606"
                    1..321
source
                                                   /note="amplify at 58 degrees,
                                                   R2-ex5-F:
5`-TCTGGAAGCCTTTCCTTACTGTG-3',
                                                   R2-ex5-R:
                                                   5 - CTTAAAGGCTGTTCGCCTTACC-3'"
exon
                    51..271
                                                   /gene="HCRTR2"
                                                   /number=5
SEQUENCE (SEQ):
      1 gaactttcct aagtcaaatt gcaataaggg tctgtctctt ctcctttcag atccctggaa
     61 catcatctgt agitcagaga aaatggaagc ccctgcagcc tgtttcacag cctcgagggc
   121 caggacagcc aacgaagtcc cggatgagcg ctgtggcggc tgaaataaag cagatccgag
181 ccagaaggaa aacagcccgg atgttgatgg ttgtgctttt ggtatttgca atttgctatc
241 taccaattag catcctcaat gtgctaaaga ggtaaaactt atctgttatt tgaaaatgaa
   301 atagcctgcc ttttcttgat t
L5
      ANSWER 107 OF 154
                                 GENBANK.RTM.
                                                   COPYRIGHT 2004 on STN
                               F202078S11
LOCUS (LOC):
                                                  GenBank (R)
GenBank ACC. NO. (GBN): AF202088
GenBank VERSION (VER):
                               AF202088.1 GI:11055239
CAS REGISTRY NO. (RN):
                               300759-60-8
SEQUENCE LENGTH (SQL):
                               216
MOLECULE TYPE (CI):
                               DNA; linear
DIVISION CODE (CI):
                               Primates
DATE (DATE):
                               6 Feb 2001
                                                  ***hypocretin***
                                                                            ***receptor*** -2
DEFINITION (DEF):
                               Homo sapiens
                               (HCRTR2) gene, exon 4.
                               11 of 14
SEGMENT:
                                 ***human***
SOURCE:
ORGANISM (ORGN):
                               Homo sapiens
                               Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
                               Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini;
                               Hominidae; Homo
                                         43 c
                                                  39 g
NUCLEIC ACID COUNT (NA): 53 a
                                                           81 t
                                   (bases 1 to 216)
REFERENCE:
   AUTHOR (AU):
                               Peyron,C.; Faraco,J.; Rogers,W.; Ripley,B.; Overeem,S.;
                               Charnay, Y.; Nevsimalova, S.; Aldrich, M.; Reynolds, D.;
                               Albin,R.; Li,R.; Hungs,M.; Pedrazzoli,M.; Padigaru,M.;
                              Kucherlapati, M.; Fan, J.; Maki, R.; Lammers, G.J.;
Bouras, C.; Kucherlapati, R.; Nishino, S.; Mignot, E.
A mutation in a case of early onset narcolepsy and a generalized absence of ***hypocretin*** peptides

***human*** narcoleptic brains
   TITLE (TI):
                                                                                        peptides in
                               Nat. Med., 6 (9), 991-997 (
                                                                   ***2000*** )
   JOURNAL (SO):
                               CA 133:348631
   OTHER SOURCE (OS):
                                  (bases 1 to 216)
REFERENCE:
   AUTHOR (AU):
                               Faraco,J.; Rogers,W.; Overeem,S.; Li,R.; Mignot,E.
                               Direct Submission
   TITLE (TI):
                               Submitted (05-NOV-1999) Center for Narcolepsy Research,
   JOURNAL (SO):
                               Department of Psychiatry, Stanford University Medical
Center, 1201 Welch Road, MSLS Bldg. P112, Stanford, CA
```

```
EATURES (FEAT):
                      Location
                                                  Qualifier
Feature Key
                                              /organism="Homo sapiens"
ource 🕟
                 1..216
                                              /db-xref="taxon:9606"
                                              /note="amplify at 58 degrees,
                                             R2-ex4-F:
                                              5 -AAGGTAAATATGCACTTTGAAGAA-3',
                                             R2-ex4-R:
                                              5`-AAGCACAGACATAATATTTGGAAG-3'"
                                              /gene="HCRTR2"
                 51..166
xon
                                              /number=4
EQUENCE (SEQ):
    1 aagtccatca attgtaacgt aaggttttgt tgttttgact ttcatcctag gtgaaattta
  61 tcccaagatg taccacatct gtttctttct ggtgacatac atggcaccac tgtgtctcat
121 ggtgttggct tatctgcaaa tatttcgcaa actctggtgt cgacaggtat atagtttcaa
  181 atattttgcg tgcattattc ctccacacat aatttg
    ANSWER 108 OF 154
                             GENBANK.RTM. COPYRIGHT 2004 on STN
ocus (Loc):
                           F202078S10
                                            GenBank (R)
GenBank ACC. NO. (GBN): AF202087
GenBank VERSION (VER):
                           AF202087.1 GI:11055238
AS REGISTRY NO. (RN): EQUENCE LENGTH (SQL):
                           300759-59-5
                           344
OLECULE TYPE (CI):
                           DNA; linear
DIVISION CODE (CI):
                           Primates
                           6 Feb 2001
DATE (DATE):
                                                                     ***receptor*** -2
                                            ***hypocretin***
DEFINITION (DEF):
                           Homo sapiens
                           (HCRTR2) gene, exon 3.
EGMENT:
                           10 of 14
                             ***human***
OURCE:
ORGANISM (ORGN):
                           Homo sapiens
                           Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
                           Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini;
                           Hominidae; Homo
74 a 85 c
                                            76 g
NUCLEIC ACID COUNT (NA): 74 a
                                                    109 t
                               (bases 1 to 344)
EFERENCE:
  AUTHOR (AU):
                           Peyron, C.; Faraco, J.; Rogers, W.; Ripley, B.; Overeem, S.;
                           Charnay, Y.; Nevsimalova, S.; Aldrich, M.; Reynolds, D.;
                           Albin,R.; Li,R.; Hungs,M.; Pedrazzoli,M.; Padigaru,M.;
                           Kucherlapati,M.; Fan,J.; Maki,R.; Lammers,G.J.
                           Bouras, C.; Kucherlapati, R.; Nishino, S.; Mignot, E.
A mutation in a case of early onset narcolepsy and a
generalized absence of ***hypocretin*** peptides
  TITLE (TI):
                                                                              peptides in
                             ***human***
                                             narcoleptic brains
                                                            ***2000***
  JOURNAL (SO):
                           Nat. Med., 6 (9), 991-997 (
                           CA 133:348631
  OTHER SOURCE (OS):
                              (bases 1 to 344)
REFERENCE:
  AUTHOR (AU):
                           Faraco, J.; Rogers, W.; Overeem, S.; Li, R.; Mignot, E.
  TITLE (TI):
                           Direct Submission
  JOURNAL (SO):
                           Submitted (05-NOV-1999) Center for Narcolepsy Research,
                           Department of Psychiatry, Stanford University Medical
Center, 1201 Welch Road, MSLS Bldg. P112, Stanford, CA
94305-5485, USA
EATURES (FEAT):
 Feature Key
                                                  Qualifier
                      Location
                                              /organism="Homo sapiens"
                 1..344
                                              /db-xref="taxon:9606"
                                              /note="amplify at 58 degrees,
                                              R2-ex-3-F:
                                                `-TTTTGGCAGCTTTGAATTTGCTTA-3',
                                              R2-ex3-R:
                                                `-TCAAGTTGGTTTTCATGCTCTTGC-3'"
                 51..294
                                              /gene="HCRTR2"
xon
                                              /number=3
EQUENCE (SEQ):
     f 1 tcttttaaca gctggtgctt ctctattact atgatctttc ttttctctag accgtgtcgg
   61 tgtctgtgtc tgtcctcaca ctgagctgta tcgccttgga tcggtggtat gcaatctgtc
```

121 accetttgat gittaagage acageaaage gggeeegtaa eageatigie ateateigga

```
181 ttgtctcctg cattataatg attcctcagg ccatcgtcat ggagtgcagc accgtgttcc
   241 caggettage caataaaace accetettia eggtgtgtga tgagegetgg ggtggtaagt
   301 accttatggc ccatcaactg acatttatat tacagcagca aatt
                              GENBANK.RTM. COPYRIGHT 2004 on STN
     ANSWER 109 OF 154
                            F202078S09
                                             GenBank (R)
LOCUS (LOC):
GenBank ACC. NO. (GBN): AF202086
GenBank VERSION (VER):
                            AF202086.1 GI:11055237
                            300759-58-4
CAS REGISTRY NO. (RN):
SEQUENCE LENGTH (SQL):
                            280
                            DNA; linear
MOLECULE TYPE (CI):
DIVISION CODE (CI):
                            Primates
                            6 Feb 2001
DATE (DATE):
                                             ***hypocretin***
                                                                      ***receptor***
DEFINITION (DEF):
                            Homo sapiens
                            (HCRTR2) gene, exon 2.
                            9 of 14
SEGMENT:
                              ***human***
SOURCE:
                            Homo sapiens
ORGANISM (ORGN):
                            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
                            Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini;
                            Hominidae; Homo
NUCLEIC ACID COUNT (NA): 67 a
                                                      99 t
                                     61 c
                            1 (bases 1 to 280)
REFERENCE:
                            Peyron, C.; Faraco, J.; Rogers, W.; Ripley, B.; Overeem, S.; Charnay, Y.; Nevsimalova, S.; Aldrich, M.; Reynolds, D.;
   AUTHOR (AU):
                            Albin,R.; Li,R.; Hungs,M.; Pedrazzoli,M.; Padigaru,M.;
Kucherlapati,M.; Fan,J.; Maki,R.; Lammers,G.J.;
                            Bouras, C.; Kucherlapati, R.; Nishino, S.; Mignot, E.
                            A mutation in a case of early onset narcolepsy and a generalized absence of ***hypocretin*** peptides
   TITLE (TI):
                                                                                peptides in
                               ***human***
                                               narcoleptic brains
                            Nat. Med., 6 (9), 991-997 ( ***2000*** )
   JOURNAL (SO):
                            CA 133:348631
   OTHER SOURCE (OS):
                            2 (bases 1 to 280) Faraco, J.; Rogers, W.; Overeem, S.; Li, R.; Mignot, E.
REFERENCE:
   AUTHOR (AU):
                            Direct Submission
   TITLE (TI):
   JOURNAL (SO):
                            Submitted (05-NOV-1999) Center for Narcolepsy Research,
                            Department of Psychiatry, Stanford University Medical
                            Center, 1201 Welch Road, MSLS Bldg. P112, Stanford, CA
                            94305-5485, USA
FEATURES (FEAT):
  Feature Key
                       Location
                                                    Qualifier
                                               /organism="Homo sapiens"
source
                   1..280
                                               /db-xref="taxon:9606"
                                               /note="amplify at 58 degrees,
                                               R2-ex2-F:
                                               5 -TGACAGTGTTTCCTCACCAATACC-3',
                                               R2-ex2-R:
                                               5 -TCCTTCAGTTTGTCAATGCCTTAG-3'"
                   52..230
                                               /gene="HCRTR2"
exon
                                               /number=2
SEQUENCE (SEQ):
   1 caatacctat titctttgtt gagtgactat tcctttttct titcaaatta gittgtgtgg 61 cagtgtggaa gaaccaccac atgaggacgg taaccaacta citcatagic aatciticic 121 tggctgatgt gctcgtgacc atcacctgcc ticcagccac actggtcgtg gatatcactg
   181 agacciggit ittiggacag tccctttgca aagtgattcc ttaictacag gtaattgtti
   241 ttaatgcttt tttgaagcta ctaaaaagaa tgttcagcca
                              GENBANK.RTM. COPYRIGHT 2004 on STN
     ANSWER 110 OF 154
LOCUS (LOC):
                            F202078S08
                                              GenBank (R)
GenBank ACC. NO. (GBN): AF202085
GenBank VERSION (VER): AF202085
                            AF202085.1
                                         GI:11055236
                            300759-57-3
CAS REGISTRY NO.
                    (RN):
SEQUENCE LENGTH (SQL):
                            636
MOLECULE TYPE (CI):
                            DNA; linear
DIVISION CODE (CI):
                            Primates
DATE (DATE):
                            6 Feb 2001
DEFINITION (DEF):
                            Homo sapiens
                                              ***hypocretin***
                                                                       ***receptor*** -2
                            (HCRTR2) gene, exon 1.
                            8 of 14
***human***
SEGMENT:
```

L5

SOURCE:

```
ORGANISM (ORGN):
                            Homo sapiens
                            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
                            Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini;
                            Hominidae; Homo
                                      Í91 с
NUCLEIC ACID COUNT (NA): 125 a
                                                179 g
                                                        141 t
                            1 (bases 1 to 636)
REFERENCE:
    AUTHOR (AU):
                            Peyron, C.; Faraco, J.; Rogers, W.; Ripley, B.; Overeem, S.;
                            Charnay, Y.; Nevsimalova, S.; Aldrich, M.; Reynolds, D.;
                            Albin,R.; Li,R.; Hungs,M.; Pedrazzoli,M.; Padigaru,M.;
Kucherlapati,M.; Fan,J.; Maki,R.; Lammers,G.J.;
Bouras,C.; Kucherlapati,R.; Nishino,S.; Mignot,E.
                            A mutation in a case of early onset narcolepsy and a generalized absence of ***hypocretin*** peptides ***human*** narcoleptic brains
   TITLE (TI):
                                                                                peptides in
                                              narcoleptic brains
                            Nat. Med., 6 (9), 991-997 ( ***2000*** )
CA 133:348631
    JOURNAL (SO):
    OTHER SOURCE (OS):
REFERENCE:
                                (bases 1 to 636)
    AUTHOR (AU):
                            Faraco, J.; Rogers, W.; Overeem, S.; Li, R.; Mignot, E.
    TITLE (TI):
                            Direct Submission
    JOURNAL (SO):
                            Submitted (05-NOV-1999) Center for Narcolepsy Research,
                            Department of Psychiatry, Stanford University Medical
                            Center, 1201 Welch Road, MSLS Bldg. P112, Stanford, CA
                            94305-5485, USA
FEATURES (FEAT):
  Feature Key
                      Location
                                                   Qualifier
 /organism="Homo sapiens"
/db-xref="taxon:9606"
                   1..636
source
                                               /note="amplify at 58 degrees,
                                               R2-ex1-F:
                                               5 - CTTCAGCTTCAGCTCTCCTCA-3',
                                               R2-ex1-R:
                                               5 -GAGCAGCGACCTCTTTGTTTGC-3'"
5'UTR
                                               /gene="HCRTR2"
/gene="HCRTR2"
                   51...364
exon
                   51..587
                                               /number=1
SEQUENCE (SEO):
      1 tcagcgaggg aggaggctgt gggctgcgga ctgagtgctg gaatgaggag taattgagct
     61 tcagctgage eggaegtage ttteteetee tggtgteatt getgeageet ceagtgeegg
    121 gtccctagtt cctcagctgc ctatcttccc ggtgcaacat cgcctgtaaa gacagcaaag
   181 ccaccgcaga agttgcccgg cagaagactc cggaggcatt ggctcagtaa cttttcacgt
    241 cattitctgc tcgggagccc cttctagcct ctccgcgcag cctttcccac cgcaaatcac
   301 cagtgctcat ggggcaggcg gagaggagct tgcagcattg agcggaaccg gacttgagcc 361 cgtgatgtcc ggcaccaaat tggaggactc cccccttgt cgcaactggt catctgcttc 421 ggagctgaat gaaactcaag agccctttt aaccccaac gactatgacg acgaggaatt 481 cctgcggtac ctgtggaggg aactacttgc caccaaagaa tatgaggag acctatgacg
    541 cgggtacatc atcgtgttcg tcgtggctct cattgggaac gtcctgggtg agtctcctcc
   601 cgggcagccc tcctaggggc tatcaccccc tctccg
L5
      ANSWER 111 OF 154
                              GENBANK.RTM. COPYRIGHT 2004 on STN
LOCUS (LOC):
                            F202078S07
                                              GenBank (R)
GenBank ACC. No. (GBN): AF202084
GenBank VERSION (VER):
                            AF202084.1 GI:11055235
CAS REGISTRY NO. (RN):
                            300759-56-2
SEQUENCE LENGTH (SQL):
                            351
MOLECULE TYPE (CI):
                            DNA; linear
DIVISION CODE (CI):
                            Primates
DATE (DATE):
                            6 Feb 2001
DEFINITION (DEF):
                            Homo sapiens ***hypocretin*** ***receptor*** -1
                            (HCRTR1) gene, exon 7 and complete cds.
SEGMENT:
                            7 of 14
                               ***human***
SOURCE:
 ORGANISM (ORGN):
                            Homo sapiens
                            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
                            Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini;
                            Hominidae; Homo
NUCLEIC ACID COUNT (NA): 51 a 116 c
                                                       89 t
                            1 (bases 1 to 351)
REFERENCE:
   AUTHOR (AU):
                            Peyron, C.; Faraco, J.; Rogers, W.; Ripley, B.; Overeem, S.;
                            Charnay,Y.; Nevsimalova,S.; Aldrich,M.; Reynolds,D.; Albin,R.; Li,R.; Hungs,M.; Pedrazzoli,M.; Padigaru,M.;
                            Kucherlapati,M.; Fan,J.; Maki,R.; Lammers,G.J.;
```

Bouras, C.; Kucherlapati, R.; Nishino, S.; Mignot, E.

```
A mutation in a case of early onset narcolepsy and a generalized absence of ***hypocretin*** peptides
    TITLE (TI):
                                                                             peptides in
                              ***human***
                                             narcoleptic brains
    JOURNAL (SO):
                            Nat. Med., 6 (9), 991-997 ( ***2000***
    OTHER SOURCE (OS):
                            CA 133:348631
 REFERENCE:
                            2 (bases 1 to 351)
    AUTHOR (AU):
                            Faraco, J.; Rogers, W.; Overeem, S.; Li, R.; Mignot, E.
    TITLE (TI):
                            Direct Submission
                            Submitted (05-NOV-1999) Center for Narcolepsy Research,
    JOURNAL (SO):
                            Department of Psychiatry, Stanford University Medical
                            Center, 1201 Welch Road, MSLS Bldg. P112, Stanford, CA 94305-5485, USA
FEATURES (FEAT):
   Feature Key
                       Location
                                                  Qualifier
                                                          /organism="Homo sapiens"
/db-xref="taxon:9606"
source
                  1..351
                                              /note="amplify at 58 degrees,
                                              R1-ex7-F:
                                              5 -CTCATAGGCAGCTTGGCTGGAG-3'.
                                              R1-ex7-R:
                                              5`-ccagagtcacacaggcagaaacc-3'"
mRNA
                  join(AF202078.1:51..402 /gene="HCRTR1"
                  ,AF202079.1:51..229,
AF202080.1:51..294,
                  AF202081.1:51..166,
                  AF202082.1:51..277
                  AF202083.1:51..172.
                  51..351)
                                              /product="hypocretin receptor-1"
gene
                  order(AF202078.1:51..45 /gene="HCRTR1"
                  2,AF202079.1:1..279,
                  AF202080.1:1..344,
                  AF202081.1:1..216,
AF202082.1:1..327,
                  AF202083.1:1..222,
                  1...351)
CDS
                  join(AF202078.1:204..40 /gene="HCRTR1"
                  Ž.AF202079.1:51..229,
                  AF202080.1:51..294,
                  AF202081.1:51..166,
                  AF202082.1:51..277,
                  AF202083.1:51..172,
                  51..241)
                                             /note="orexin receptor-1"
                                             /codon-start=1
/product="hypocretin receptor-1"
/protein-id="AAG28020.1"
                                              /db-xref="GI:11055243"
                                             /translation="MEPSATPGAQMGVPPGSREP
                                             SPVPPDYEDEFLRYLWRDYLYPKQ
                                             YEWVLIAAYVAVFVVALVGNTLVCLAVWRNHHMR
                                             TVTNYFIVNLSLADVLVTAICLPA
                                             SLLVDITESWLFGHALCKVIPYLQAVSVSVAVLT
                                             LSFIALDRWYAICHPLLFKSTARR
                                             ARGSILGIWAVSLAIMVPQAAVMECSSVLPELAN
                                             RTRLFSVCDERWADDLYPKIYHSC
                                             FFIVTYLAPLGLMAMAYFQIFRKLWGRQIPGTTS
                                             ALVRNWKRPSDQLGDLEQGLSGEP
                                             QPRARAFLAEVKQMRARRKTAKMLMVVLLVFALC
                                             YLPISVLNVLKRVFGMFRQASDRE
                                             AVYACFTFSHWLVYANSAANPIIYNFLSGKFREQ
                                             FKAAFSCCLPGLGPCGSLKAPSPR
                                             SSASHKSLSLQSRCSISKISEHVVLTSVTTVLP"
exon
                  51..351
                                             /gene="HCRTR1"
                                             /number=7
3'UTR
                  242..351
                                             /gene="HCRTR1"
SEQUENCE (SEQ):
     1 tectgetgea tetgteteet tatggetgtg tettttgtet eccaaccaag geaaatteeg
    61 ggagcagttt aaggctgcct tctcctgctg cctgcctggc ctgggtccct gcggctctct
   121 gaaggcccct agtccccgct cctctgccag ccacaagtcc ttgtccttgc agagccgatg
   181 ctccatctcc aaaatctctg agcatgtggt gctcaccagc gtcaccacag tgctgccctg
   241 agcgagggct gccctggagg ctccggctcg ggggatctgc ccctacccct catggaaaga
301 cagctggatg tggtgaaagg ctgtggcttc agtcctgggt ttctgcctgt g
```

```
L5
      ANSWER 112 OF 154
                              GENBANK.RTM. COPYRIGHT 2004 on STN
LOCUS (LOC):
                            F202078506
                                            GenBank (R)
GenBank ACC. NO. (GBN): AF202083
GenBank VERSION (VER):
                           AF202083.1 GI:11055234
CAS REGISTRY NO. (RN):
                            300759-55-1
SEQUENCE LENGTH (SQL):
                           222
MOLECULE TYPE (CI):
                           DNA: linear
DIVISION CODE (CI):
                           Primates
DATE (DATE):
                           6 Feb 2001
DEFINITION (DEF):
                                            ***hypocretin***
                           Homo sapiens
                                                                    ***receptor*** -1
                            (HCRTR1) gene, exon 6.
                           6 of 14 ***human***
SEGMENT:
SOURCE:
 ORGANISM (ORGN):
                           Homo sapiens
                           Eukaryota; Metazoa; Chordata; Craniata; Vertebrata:
                           Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini;
                           Hominidae; Homo
NUCLEIC ACID COUNT (NA): 45 a
                                    75 c
                                            55 g
                                                    47 t
REFERENCE:
                               (bases 1 to 222)
   AUTHOR (AU):
                           Peyron, C.; Faraco, J.; Rogers, W.; Ripley, B.; Overeem, S.;
                           Charnay,Y.; Nevsimalova,S.; Aldrich,M.; Reynolds,D.;
                           Albin,R.; Li,R.; Hungs,M.; Pedrazzoli,M.; Padigaru,M.; Kucherlapati,M.; Fan,J.; Maki,R.; Lammers,G.J.; Bouras,C.; Kucherlapati,R.; Nishino,S.; Mignot,E. A mutation in a case of early onset narcolepsy and a generalized absence of ***hypocretin*** peptides in
   TITLE (TI):
                                                                             peptides in
                              ***human***
                                             narcoleptic brains
                           Nat. Med., 6 (9), 991-997 ( ***2000*** )
   JOURNAL (SO):
   OTHER SOURCE (OS):
                           CA 133:348631
REFERENCE:
                               (bases 1 to 222)
   AUTHOR (AU):
                           Faraco, J.; Rogers, W.; Overeem, S.; Li, R.; Mignot, E.
    TITLE (TI):
                           Direct Submission
    JOURNAL (SO):
                           Submitted (05-NOV-1999) Center for Narcolepsy Research,
                           Department of Psychiatry, Stanford University Medical
Center, 1201 Welch Road, MSLS Bldg. P112, Stanford, CA
94305-5485, USA
FEATURES (FEAT):
  Feature Key
                       Location
                                                  Qualifier
 source
                  1..222
                                             /organism="Homo sapiens"
                                              /db-xref="taxon:9606"
                                              /note="amplify at 58 degrees,
                                             R1-ex6-F:
                                               `-TGGGCAGTAGGAACTCTTGCACT-3',
                                             R1-ex6-R:
                                             5 - CAGGTACATCCTCACCCACCATC - 3 ' "
                  51..172
exon
                                             /gene="HCRTR1"
                                             /number=6
SEQUENCE (SEQ):
      1 catgcatacg cagctacccc atttctgacg ctcctccacc ctgggcctag ggtgttcggg
     61 atgttccgcc aagccagtga ccgcgaagct gtctacgcct gcttcacctt ctcccactgg
   121 ctggtgtacg ccaacagcgc tgccaacccc atcatctaca acttcctcag tggtgagcag
   181 gctggggatg caaaatgact gagggtggcc aacagtccac at
     ANSWER 113 OF 154
                             GENBANK.RTM. COPYRIGHT 2004 on STN
LOCUS (LOC):
                           F202078S05
                                            GenBank (R)
GenBank ACC. NO. (GBN): AF202082
GenBank VERSION (VER):
                           AF202082.1 GI:11055233
CAS REGISTRY NO. (RN):
                           300759-54-0
SEQUENCE LENGTH (SQL):
                           327
MOLECULE TYPE (CI):
                           DNA; linear
DIVISION CODE (CI):
                           Primates
DATE (DATE):
                           6 Feb 2001
DEFINITION (DEF):
                           Homo sapiens
                                            ***hypocretin***
                                                                    ***receptor***
                           (HCRTR1) gene, exon 5.
SEGMENT:
                           5 of 14
                             ***human***
SOURCE:
 ORGANISM (ORGN):
                           Homo sapiens
                           Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
                           Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini;
```

Hominidae; Homo

```
NUCLEIC ACID COUNT (NA): 61 a
                                       93 c
                                                111 g
                                                          62 t
REFERENCE:
                              1 (bases 1 to 327)
                             Peyron, C.; Faraco, J.; Rogers, W.; Ripley, B.; Overeem, S.; Charnay, Y.; Nevsimalova, S.; Aldrich, M.; Reynolds, D.; Albin, R.; Li, R.; Hungs, M.; Pedrazzoli, M.; Padigaru, M.; Kucherlapati, M.; Fan, J.; Maki, R.; Lammers, G.J.;
    AUTHOR (AU):
                              Bouras, C.; Kucherlapati, R.; Nishino, S.; Mignot, E.
                             A mutation in a case of early onset narcolepsy and a generalized absence of ***hypocretin*** peptides
    TITLE (TI):
                                                                                   peptides in
                                ***human***
                                                narcoleptic brains
    JOURNAL (SO):
                             Nat. Med., 6 (9), 991-997 ( ***2000*** )
    OTHER SOURCE (OS):
                              CA 133:348631
REFERENCE:
                                  (bases 1 to 327)
                             Faraco,J.; Rogers,W.; Overeem,S.; Li,R.; Mignot,E.
    AUTHOR (AU):
    TITLE (TI):
                             Direct Submission
                             Submitted (05-NOV-1999) Center for Narcolepsy Research, Department of Psychiatry, Stanford University Medical
    JOURNAL (SO):
                             Center, 1201 Welch Road, MSLS Bldg. P112, Stanford, CA
                             94305-5485, USA
FEATURES (FEAT):
  Feature Key
                      Location
                                                      Qualifier
 -----+
                                                 /organism="Homo sapiens"
/db-xref="taxon:9606"
source
                   1..327
                                                 /note="amplify at 58 degrees,
                                                 R1-ex5-F:
                                                 5 -TTTTATCCTTTTGCCCATCTCCAC-3',
                                                 R1-ex5-R:
                                                 5`-GGAGGCTCAGAGAAGAGAAATGGC-3'"
exon
                    51..277
                                                 /gene="HCRTR1"
                                                 /number=5
SEQUENCE (SEQ):
      oldsymbol{1} cctcccaagg tgctgtaccc accactgctg tctctatgtg tgctggacag atccccggca
   61 ccacctcage actggtgcgg aactggaage gcccctcaga ccagctgggg gacctggage 121 agggcctgag tggagagccc cagccccggg cccgcgctt cctggctgaa gtgaagcaga 181 tgcgtgcacg gaggaagaca gccaagatge tgatggtggt gctgctggte ttcgccctct
    241 gctacctgcc catcagcgtc ctcaatgtcc ttaagaggtg agagcacggg gtatggttgg
    301 ggtggggaga agtttgaggt tggggaa
L5
      ANSWER 114 OF 154
                                GENBANK.RTM. COPYRIGHT 2004 on STN
LOCUS (LOC):
                             F202078S04
                                                GenBank (R)
GenBank ACC. NO. (GBN): AF202081
GenBank VERSION (VER):
                             AF202081.1 GI:11055232
CAS REGISTRY NO. (RN):
                             300759-53-9
SEQUENCE LENGTH (SQL):
                             216
MOLECULE TYPE (CI):
                             DNA; linear
DIVISION CODE (CI):
                             Primates
DATE (DATE):
                             6 Feb 2001
DEFINITION (DEF):
                             Homo sapiens
                                              ***hypocretin***
                                                                        ***receptor*** -1
                             (HCRTR1) gene, exon 4.
                             4 of 14 ***human***
SEGMENT:
SOURCE:
 ORGANISM (ORGN):
                             Homo sapiens
                             Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
                             Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini;
                             Hominidae; Homo
NUCLEIC ACID COUNT (NA): 34 a
                                       67 c
                                                63 g
                                                        52 t
REFERENCE:
                             1 (bases 1 to 216)
   AUTHOR (AU):
                             Peyron, C.; Faraco, J.; Rogers, W.; Ripley, B.; Overeem, S.;
                             Charnay, Y.; Nevsimalova, S.; Aldrich, M.; Reynolds, D.;
                             Albin,R.; Li,R.; Hungs,M.; Pedrazzoli,M.; Padigaru,M.;
                             Kucherlapati,M.; Fan,J.; Maki,R.; Lammers,G.J.;
                             Bouras, C.; Kucherlapati, R.; Nishino, S.; Mignot, E.
A mutation in a case of early onset narcolepsy and a
generalized absence of ***hypocretin*** peptides
   TITLE (TI):
                                                                                   peptides in
                                ***human***
                                                narcoleptic brains
   JOURNAL (SO):
                             Nat. Med., 6 (9), 991-997 ( ***2000*** )
   OTHER SOURCE (OS):
                             CA 133:348631
REFERENCE:
                                 (bases 1 to 216)
   AUTHOR (AU): TITLE (TI):
                             Faraco, J.; Rogers, W.; Overeem, S.; Li, R.; Mignot, E.
                             Direct Submission
   JOURNAL (SO):
                             Submitted (05-NOV-1999) Center for Narcolepsy Research,
                             Department of Psychiatry, Stanford University Medical
```

```
FEATURES (FEAT):
  Feature Key
                       Location
                                                   Qualifier
 ==========+====+=============+=====
source
                  1..216
                                              /organism="Homo sapiens"
                                               /db-xref="taxon:9606"
                                               /note="amplify at 58 degrees,
                                              R1-ex4-F:
                                               5 -CTGTCTGTCATGGTGGCTGTATGG-3',
                                              R1-ex4-R:
                                              5 - CTCTCTTTGGTTGCAGCCAAGATG-3'"
                                               /gene="HCRTR1"
exon
                  51..166
                                               /number=4
SEQUENCE (SEQ):
     1 gggtggggct cacggattgg gcctgactct gcatctcttg acccctgcag atgacctcta
    61 tcccaagate taccacagtt gettetttat tgtcacctae etggccccae tgggcctcat
   121 ggccatggcc tatttccaga tattccgcaa gctctggggc cgccaggtga ggcccactct
   181 gggcagggc taggccagtc actgtgtggg ctgggg
L5
     ANSWER 115 OF 154
                              GENBANK.RTM. COPYRIGHT 2004 on STN
LOCUS (LOC):
                            F202078S03
                                             GenBank (R)
GenBank ACC. NO. (GBN): AF202080
GenBank VERSION (VER):
                           AF202080.1 GI:11055231
CAS REGISTRY NO. (RN):
                            300759-52-8
SEQUENCE LENGTH (SQL):
                            344
MOLECULE TYPE (CI):
                            DNA; linear
DIVISION CODE (CI):
                            Primates
DATE (DATE):
                            6 Feb 2001
DEFINITION (DEF):
                                            ***hypocretin***
                                                                    ***receptor*** -1
                           Homo sapiens
                            (HCRTR1) gene, exon 3.
3 of 14
***human***
SEGMENT:
SOURCE:
ORGANISM (ORGN):
                           Homo sapiens
                            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
                           Euteleostomi; Mammalia; Euthéria; Primates; Catarrhini;
                           Hominidae: Homo
NUCLEIC ACID COUNT (NA): 58 a
                                     106 c
                                              106 g
                                                       74 t
REFERENCE:
                            1 (bases 1 to 344)
   AUTHOR (AU):
                           Peyron, C.; Faraco, J.; Rogers, W.; Ripley, B.; Overeem, S.;
                           Charnay,Y.; Nevsimalova,S.; Aldrich,M.; Reynolds,D.; Albin,R.; Li,R.; Hungs,M.; Pedrazzoli,M.; Padigaru,M.; Kucherlapati,M.; Fan,J.; Maki,R.; Lammers,G.J.; Bouras,C.; Kucherlapati,R.; Nishino,S.; Mignot,E. A mutation in a case of early onset narcolepsy and a generalized absence of ***hypocretin*** peptides in
   TITLE (TI):
                                                                              peptides in
                              ***human***
                                              narcoleptic brains
   JOURNAL (SO):
                           Nat. Med., 6 (9), 991-997 ( ***2000*** )
   OTHER SOURCE (OS):
                           CA 133:348631
REFERENCE:
                               (bases 1 to 344)
                           Faraco, J.; Rogers, W.; Overeem, S.; Li, R.; Mignot, E. Direct Submission
   AUTHOR (AU):
   TITLE (TI):
   JOURNAL (SO):
                           Submitted (05-NOV-1999) Center for Narcolepsy Research,
                           Department of Psychiatry, Stanford University Medical Center, 1201 Welch Road, MSLS Bldg. P112, Stanford, CA 94305-5485, USA
FEATURES (FEAT):
Feature Key
                    Location
                                                  Qualifier
 source
                  1..344
                                              /organism="Homo sapiens"
                                              /db-xref="taxon:9606
                                              /note="amplify at 58 degrees,
                                              R1-ex3-F:
                                              5`-CGTCAGCCTCCTCACTCACCTACT-3',
                                              R1-ex3-R:
                                              5`-TGGTAGGAGCCAGTCTAGGGTGTC-3'"
                  51..294
exon
                                              /gene="HCRTR1"
                                              /number=3
SEQUENCE (SEQ):
```

1 catcgctggg tggcccccaa aatgaccgac gttgtgtccc cgtggggcag gctgtgtccg 61 tgtcagtggc agtgctaact ctcagcttca tcgccctgga ccgctggtat gccatctgcc

```
121 acccactatt gttcaagagc acagcccggc gggcccgtgg ctccatcctg ggcatctggg
   181 ctgtgtcgct ggccatcatg gtgccccagg ctgcagtcat ggaatgcagc agtgtgctgc 241 ctgagctagc caaccgcaca cggctcttct cagtctgtga tgaacgctgg gcaggtaatg
   301 gtggaagcct caagcaggca tcccctcagg tgggcacttt ggga
     ANSWER 116 OF 154
                             GENBANK.RTM. COPYRIGHT 2004 on STN
LOCUS (LOC):
                           F202078S02
                                            GenBank (R)
GenBank ACC. NO. (GBN): AF202079
GenBank VERSION (VER):
                           AF202079.1 GI:11055230
CAS REGISTRY NO. (RN):
SEQUENCE LENGTH (SQL):
                           300759-51-7
                           279
MOLECULE TYPE (CI):
DIVISION CODE (CI):
                           DNA; linear
                           Primates
DATE (DATE):
                           6 Feb 2001
DEFINITION (DEF):
                           Homo sapiens
                                           ***hypocretin***
                                                                   ***receptor*** -1
                           (HCRTR1) gene, exon 2.
SEGMENT:
                           2 of 14
SOURCE:
                             ***human***
ORGANISM (ORGN):
                           Homo sapiens
                           Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
                           Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini;
                           Hominidae; Homo
48 a 98 c
NUCLEIC ACID COUNT (NA): 48 a
                                                    65 t
REFERENCE:
                           1 (bases 1 to 279)
                          Peyron, C.; Faraco, J.; Rogers, W.; Ripley, B.; Overeem, S.; Charnay, Y.; Nevsimalova, S.; Aldrich, M.; Reynolds, D.; Albin, R.; Li, R.; Hungs, M.; Pedrazzoli, M.; Padigaru, M.;
  AUTHOR (AU):
                           Kucherlapati, M.; Fan, J.; Maki, R.; Lammers, G.J.
                          Bouras, C.; Kucherlapati, R.; Nishino, S.; Mignot, E.
A mutation in a case of early onset narcolepsy and a
generalized absence of ***hypocretin*** peptides
  TITLE (TI):
                                                                              peptides in
                             ***human***
                                             narcoleptic brains
                           Nat. Med., 6 (9), 991-997 ( ***2000*** )
CA 133:348631
  JOURNAL (SO):
  OTHER SOURCE (OS):
REFERENCE:
                              (bases 1 to 279)
  AUTHOR (AU):
                           Faraco,J.; Rogers,W.; Overeem,S.; Li,R.; Mignot,E.
  TITLE (TI):
                           Direct Submission
                           Submitted (05-NOV-1999) Center for Narcolepsy Research,
  JOURNAL (SO):
                           Department of Psychiatry, Stanford University Medical
                           Center, 1201 Welch Road, MSLS Bldg. P112, Stanford, CA
                           94305-5485, USA
FEATURES (FEAT):
Feature Key
                      Location
                                                 Oualifier
source
                 1..279
                                             /organism="Homo sapiens"
                                             /db-xref="taxon:9606"
                                             /note="amplify at 58 degrees,
                                             R1-ex2-F:
                                             5`-GAAGGGGGTTGTGTGGGAAGAG-3',
                                             R1-ex2-R:
                                             5 ~ACACTTCAGGGGTCATGAGCCA-3'"
                 51..229
                                             /gene="HCRTR1"
                                             /number=2
EQUENCE (SEQ):
    1 ctaggatggg tgtggctctg ccaccagctt cacctcgctg caccctgcag tctgcctggc
   61 cgtgtggcgg aaccaccaca tgaggacagt caccaactac ttcattgtca acctgtccct
  121 ggctgacgtt ctggtgactg ctatctgcct gccggccagc ctgctggtgg acatcactga
  181 gtcctggctg ttcggccatg ccctctgcaa ggtcatcccc tatctacagg tgagctctgc
  241 ccaggcacco ctcaccacto cttgtcacgo ctgtaaaaa
    ANSWER 117 OF 154
                             GENBANK.RTM. COPYRIGHT 2004 on STN
OCUS (LOC):
                          F202078S01
                                            GenBank (R)
GenBank ACC. NO. (GBN): AF202078
enBank VERSION (VER):
                          AF202078.1 GI:11055229
AS REGISTRY NO. (RN):
                          300759-50-6
EQUENCE LENGTH (SQL):
                          452
OLECULE TYPE (CI):
                          DNA; linear
IVISION CODE (CI):
                          Primates
ATE (DATE):
                          6 Feb 2001
EFINITION (DEF):
                                                                  ***receptor*** -1
                          Homo sapiens
                                           ***hypocretin***
                          (HCRTR1) gene, exon 1.
EGMENT:
                          1 of 14
```

Ļ5

.5

```
SOURCE:
                             ***human***
 ORGANISM (ORGN):
                           Homo sapiens
                           Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
                           Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini;
                           Hominidae: Homo
NUCLEIC ACID COUNT (NA): 72 a
                                   147 c
                                                     107 t
                                                              1 others
REFERENCE:
                           1 (bases 1 to 452)
   AUTHOR (AU):
                           Peyron,C.; Faraco,J.; Rogers,W.; Ripley,B.; Overeem,S.;
                           Charnay, Y.; Nevsimalova, S.; Aldrich, M.; Reynolds, D.; Albin, R.; Li, R.; Hungs, M.; Pedrazzoli, M.; Padigaru, M.;
                          Kucherlapati, M.; Fan, J.; Maki, R.; Lammers, G.J.;
                          Bouras, C.; Kucherlapati, R.; Nishino, S.; Mignot, E.
A mutation in a case of early onset narcolepsy and a
generalized absence of ***hypocretin*** peptides
   TITLE (TI):
                                                                            peptides in
                          ***human*** narcoleptic brains
Nat. Med., 66 (9), 991-997 ( ***2000*** )
   JOURNAL (SO):
                           CA 133:348631
   OTHER SOURCE (OS):
REFERENCE:
                              (bases 1 to 452)
   AUTHOR (AU):
                           Faraco, J.; Rogers, W.; Overeem, S.; Li, R.; Mignot, E.
   TITLE (TI):
                           Direct Submission
   JOURNAL (SO):
                           Submitted (05-NOV-1999) Center for Narcolepsy Research,
                           Department of Psychiatry, Stanford University Medical
                           Center, 1201 Welch Road, MSLS Bldg. P112, Stanford, CA
                           94305-5485, USA
FEATURES (FEAT):
  Feature Key
                      Location
                                                 Qualifier
1..452
                                             /organism="Homo sapiens"
source
                                             /db-xref="taxon:9606"
                                             /note="amplify at 58 degrees,
                                            R1-ex1-F:
5`-CCTCCACCAATTTCATGACTGTGA-3',
                                            R1-ex1-R:
5`-CAGAGCCACACCCATCCTAGTTCT-3'"
                                             /gene="HCRTR1"
5'UTR
                  51..203
                                             /gene="HCRTR1"
                  51..402
exon
                                             /number=1
SEQUENCE (SEQ):
     1 aatccctaat gtttccttcc ttctctcttt tcccactccc tcctttcctt cctcccttca
    61 ggaagtttga ggctgagacc cgaaaagacc tgggtgcaag cctccaggca ccctgaaggg
   121 agtgggctga gggctggccc aagctccctc ctctccctct gtagagccta ggatgcccct
   181 ctgctgcagc ggctcctgag ctcatggagc cctcagccac cccaggggcc cagatggggg
   241 tccccctgg cagcagagag ccgtccctg tgcctccaga ctatgaagat gagtttctcc
301 gctatctgtg gcgygattat ctgtacccaa aacagtatga gtgggtcctc atcgcagcct
   361 atgtggctgt gttcgtcgtg gccctggtgg gcaacacgct gggtaggtcc agggcttgcc
   421 cggcagtgct gccggctttc cctggggatt ga
L5
     ANSWER 118 OF 154
                             GENBANK.RTM. COPYRIGHT 2004 on STN
LOCUS (LOC):
                           AF041245
                                         GenBank (R)
GenBank ACC. NO. (GBN): AF041245
GenBank VERSION (VER):
                          AF041245.1 GI:2897127
CAS REGISTRY NO. (RN):
                           204420-47-3
SEQUENCE LENGTH (SQL):
                           1878
MOLECULE TYPE (CI):
                           mRNA; linear
DIVISION CODE (CI):
                          Primates
DATE (DATE):
                           24 Feb 1998
DEFINITION (DEF):
                                           ***orexin***
                                                             ***receptor*** -2
                           Homo sapiens
                           mRNA, complete cds.
                             ***human***
SOURCE:
ORGANISM (ORGN):
                           Homo sapiens
                           Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
                           Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini;
                           Hominidae; Homo
NUCLEIC ACID COUNT (NA): 473 a
                                    458 c
                                              447 g
                                                       500 t
REFERENCE:
                             (bases 1 to 1878)
                          Sakurai,T.; Amemiya,A.; Ishii,M.; Matsuzaki,I.; Chemelli,R.M.; Tanaka,H.; Williams,S.C.;
   AUTHOR (AU):
                          Richardson, J.A.; Kozlowski, G.P.; Wilson, S.
                          Arch, J.R.S.; Buckingham, R.E.; Haynes, A.C.; A.
                          Carr,S.A.; Annan,R.S.; McNulty,D.E.; Liu,W.-S.;
                          Terrett, J.A.; Elshourbagy, N.A.; Bergsma, D.J.;
                           Yanagisawa,M.
   TITLE (TI):
                          Orexins and ***orexin***
                                                          receptors: a family of
```

```
hypothalamic neuropeptides and G protein-coupled
                                  receptors that regulate feeding behavior Cell, 92 (4), 573-585 ( ***1998*** )
    JOURNAL (SO):
    OTHER SOURCE (OS):
                                  CA 128:290571
                                       (bases 1 to 1878)
REFERENCE:
    AUTHOR (AU):
                                  Sakurai,T.; Amemiya,A.; Ishii,M.; Matsuzaki,I.;
                                  Chemelli, R.M.; Tanaka, H.; Williams, S.C.;
                                  Richardson, J.A.; Kozlowski, G.P.; Wilson, S.;
                                  Arch, J.R.S.; Buckingham, R.E.; Haynes, A.C.; A.
                                  Carr, S.A.; Annan, R.S.; McNulty, D.E.; Liu, W.-S.;
                                  Terrett,J.A.; Elshourbagy,N.A.; Bergsma,D.J.;
                                  Yanagisawa, M.
                                  Direct Submission
    TITLE (TI):
                                  Submitted (07-JAN-1998) HHMI/Department of Molecular Genetics, University of Texas Southwestern Medical Center at Dallas, 5323 Harry Hines Blvd., Rm. Y5.224,
    JOURNAL (SO):
                                  Dallas, TX 75235-9050, USA
FEATURES (FEAT):
  Feature Key
                            Location
                                                               Qualifier
1..1878
                                                          /organism="Homo sapiens"
source
                                                          /db-xref="taxon:9606"
                                                          /chromosome="6'
                                                          /map="6cen(p11-q11)"
/note="0X2R; G protein-coupled
CDS
                       360..1694
                                                          receptor"
                                                          /codon-start=1
                                                          /product="orexin receptor-2"
                                                          /protein-id="AAC39602.1"
                                                          /db-xref="GI:2897128'
                                                          translation="MSGTKLEDSPPCRNWSSASE/
                                                          LNETQEPFLNPTDYDDEEFLRYLW
                                                          REYLHPKEYEWVLIAGYIIVFVVALIGNVLVCVA
                                                          VWKNHHMRTVTNYFIVNLSLADVL
                                                          VTITCLPATLVVDITETWFFGQSLCKVIPYLQTV
                                                          SVSVSVLTLSCIALDRWYAICHPL
                                                          MFKSTAKRARNSIVIIWIVSCIIMIPQAIVMECS
                                                          TVFPGLANKTTLFTVCDERWGGEI
                                                          YPKMYHICFFLVTYMAPLCLMVLAYLQIFRKLWC
                                                          RQIPGTSSVVQRKWKPLQPVSQPR
                                                          GPGQPTKSRMSAVAAEIKQIRARRKTARMLMVVL
                                                          LVFAICYLPISILNVLKRVFGMFA
                                                          HTEDRETVYAWFTFSHWLVYANSAANPIIYNFLS
                                                          GKFREEFKAAFSCCCLGVHHRQED
                                                          RLTRGRTSTESRKSLTTQISNFDNISKLSEQVVL
                                                          TSISTLPAANGAGPLQNW'
SEQUENCE (SEQ):
       1 ctactactac taggccacgc gtcgactagt acgggggggg gggggtaatt gagcttcagc
     61 tgagccggac gtagctttet ectectggtg teattgetge ageetecagt geegggteec
    121 tagiticatica getgeetate ticceggige aacategeet giaaagacag caaageeace
    181 gcagaagttg cccggcagaa gactccggag gcattggctc agtaactttt cacgtcattt
   241 tetgeteggg ageceettet agetteegg geattggete agtaactitt caegteattt 241 tetgeteggg ageceettet agetteeg egeageettt ceeacegeaa ateaceagtg 301 etcatgggge aggeggagag gagettgeag cattgagegg aaceggaett gagecegtga 361 tgteeggae caaattggag gacteeeee ettgtegeaa etggteatet getteggage 421 tgaatgaaae teaagageee tittaaaee eeacegaeta tgaegaegag gaatteetge 481 ggtacetgtg gagggaatae etgeaceega aagaatatga gtgggteetg ategeegggt 3601 agaaceacea catgaggaeg gtaaceaaet aetteatagt egatateaet gaggegtagga 661 tgetegtgae eateacetge etteeageag gaategtegt gagatateaet gagaeeetggt
    661 tgctcgtgac catcacctgc cttccagcca cactggtcgt ggatatcact gagacctggt
    721 tittiggāca gicccitigc aaagigātic citatciaca gāccgigicg gigicigigi
  781 ctgtcctcac actgagctgt atcgccttgg atcggtggta tgcaatctgt caccctttga 841 tgtttaagag cacagcaaag cgggcccgta acagcattgt catcatctgg attgtctcct 901 gcattataat gattcctcag gccatcgtca tggagtgcag caccgtgttc ccaggcttag 961 ccaataaaac caccctcttt acggtgtgtg atgagcgctg gggtggtgaa atttatccca 1021 agatgtacca catctgtttc tttctggtga catacatggc accactgtgt ctcatggtgt 1081 tggcttatct gcaaatattt cgcaaactct ggtgtcgaca gatccctggag ccaggacagc 1141 tagttcagag aaaatggaag ccctgcagc ctgttcaca gcctcgaggg ccaggacagc
  1201 caacgaagtc ccggatgagc gctgtggcgg ctgaaataaa gcagatccga gccagaagga
  1261 aaacagcccg gatgttgatg gttgtgcttt tggtatttgc aatttgctat ctaccaatta
  1321 gcatcctcaa tgtgctaaag agagtatttg ggatgtttgc ccatactgaa gacagagaga
  1381 ctgtgtatgc ctggtttacc ttttcacact ggcttgtata tgccaatagt gctgcgaatc
  1441 caattattta taattttctc agtggaaaat ticgagagga aittaaagct gcgitttctt
  1501 gctgttgcct tggagttcac catcgccagg aggatcggct caccagggga cgaactagca
```

1561 cagagageeg gaagteettg accaeteaaa teageaaett tgataacata teaaaaettt

```
1621 ctgagcaagt tgtgctcact agcataagca cactcccagc agccaatgga gcaggaccac
  1681 ttcaaaactg gtagaatatt tattcatatg acaaggatac ctgagtaaaa ctatcctttt 1741 taaaatcact gggaacagaa attttattat cctatgatgt gaagctaaaa ttacttgtgg
  1801 atctttttt tiittaaict attgctcttt ggaaataaaa aaaaagtcag tttaaaatga
  1861 aaaaaaaaaa aaaaaaaa
     ANSWER 119 OF 154
                              GENBANK.RTM. COPYRIGHT 2004 on STN
LOCUS (LOC):
                            AF041243
                                           GenBank (R)
GenBank ACC. NO. (GBN): AF041243
GenBank VERSION (VER):
                            AF041243.1 GI:2897123
CAS REGISTRY NO. (RN):
                            392043-36-6
SEQUENCE LENGTH (SQL):
                            1564
MOLECULE TYPE (CI):
DIVISION CODE (CI):
                            mRNA; linear
                            Primates
                            24 Feb 1998
DATE (DATE):
DEFINITION (DEF):
                                                                 ***receptor*** -1
                            Homo sapiens
                                             ***orexin***
                            mRNA, complete cds.
***human**** .
SOURCE:
 ORGANISM (ORGN):
                            Homo sapiens
                            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
                            Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini;
                            Hominidae; Homo
                                               436 g
NUCLEIC ACID COUNT (NA): 268 a
                                      513 c
                                                         347 t
REFERENCE:
                               (bases 1 to 1564)
                            Sakurai,T.; Amemiya,A.; Ishii,M.; Matsuzaki,I.; Chemelli,R.M.; Tanaka,H.; Williams,S.C.;
   AUTHOR (AU):
                            Richardson, J.A.; Kozlówski, G.P.; Wilson, S.;
                            Arch, J.R.S.; Buckingham, R.É.; Haynes, A.C.; A.
                            Carr, S.A.; Annan, R.S.; McNulty, D.E.; Liu, W.-S.;
                            Terrett, J.A.; Elshourbagy, N.A.; Bergsma, D.J.;
                            Yanagisawa, M.
   TITLE (TI):
                            Orexins and
                                            ***orexin***
                                                              receptors: a family of
                            hypothalamic neuropeptides and G protein-coupled
                            receptors that regulate feeding behavior Cell, 92 (4), 573-585 ( ***1998*** ) CA 128:290571
   JOURNAL (SO):
   OTHER SOURCE (OS):
REFERENCE:
                                (bases 1 to 1564)
   AUTHOR (AU):
                            Sakurai,T.; Amemiya,A.; Ishii,M.; Matsuzaki,I.;
                            Chemelli, R.M.; Tanaka, H.; Williams, S.C.;
                            Richardson, J.A.; Kozlowski, G.P.; Wilson, S.;
                            Arch, J.R.S.; Buckingham, R.E.; Haynes, A.C.; A.
                            Carr, S.A.; Annan, R.S.; McNulty, D.E.; Liu, W.-S.;
                            Terrett, J.A.; Elshourbagy, N.A.; Bergsma, D.J.;
                            Yanagisawa.M.
   TITLE (TI):
                            Direct Submission
   JOURNAL (SO):
                            Submitted (07-JAN-1998) HHMI/Department of Molecular Genetics, University of Texas Southwestern Medical
                            Center at Dallas, 5323 Harry Hines Blvd., Rm. Y5.224,
                            Dallas, TX 75235-9050, USA
FEATURES (FEAT):
  Feature Key
                       Location
                                                   Qualifier
                                              /organism="Homo sapiens"
/db-xref="taxon:9606"
/chromosome="1"
source
                  1..1564
                                              /map="1p33"
/note="0x1R; G protein-coupled
CDS
                  154..1431
                                              receptor"
                                              /codon-start=1
                                              /product="orexin receptor-1"
                                               /protein-id="AAC39601.1
                                               /db-xref="GI:2897124
                                               translation="MEPSATPGAQMGVPPGSREP"
                                              SPVPPDYEDEFLRYLWRDYLYPKQ
                                              YEWVLIAAYVAVFVVALVGNTLVCLAVWRNHHMR
                                              TVTNYFIVNLSLADVLVTAICLPA
                                              SLLVDITESWLFGHALCKVIPYLQAVSVSVAVLT
                                              LSFIALDRWYAICHPLLFKSTARR
                                              ARGSILGIWAVSLAIMVPQAAVMECSSVLPELAN
                                              RTRLFSVCDERWADDLYPKIYHSC
                                              FFIVTYLAPLGLMAMAYFQIFRKLWGRQIPGTTS
                                              ALVRNWKRPSDQLGDLEQGLSGEP
                                              QPRGRAFLAEVKQMRARRKTAKMLMVVLLVFALC
```

YLPISVLNVLKRVFGMFRQASDRE

```
SEQUENCE (SEQ):
       1 cctcccttca ggaagtttga ggctgagacc cgaaaagacc tgggtgcaag cctccaggca
      61 ccctgaaggg agtgggctga gggctggccc aagctccctc ctctccctct gtagagccta
     121 ggatgcccct ctgctgcagc ggctcctgag ctcatggagc cctcagccac cccaggggcc
     181 cagatggggg tcccccctgg cagcagagag ccgtcccctg tgcctccaga ctatgaagat
     241 gagtttetee getatetgtg gegtgattat etgtaeecaa aacagtatga gtgggteete
     301 atcgcagcct atgtggctgt gttcgtcgtg gccctggtgg gcaacacgct ggtctgcctg
     361 gccgtgtggc ggaaccacca catgaggaca gtcaccaact acttcattgt caacctgtcc
    421 ctggctgacg ttctggtgac tgctatctgc ctgccggcca gcctgctggt ggacatcact 481 gagtcctggc tgttcggcca tgccctctgc aaggtcatcc cctatctaca ggctgtgtcc 541 gtgtcagtgg cagtgctaac tctcagcttc atcgccctgg accgctggta tgccatctgc 601 cacccactat tgttcaagag cacagcccgg cgggcccgtg gctccatcct gggcatctgg 661 gctgtgtcgc tggccatcat ggtgccccag gctgcagtca tggaatgcag cagtgtgtg cctgagctag ccaaccgcac acggctcttc tcagtctgtg atgaacgctg ggcagatgac 781 ctcatccca agatctacca cagttgcttc tttattgtca cctacctggc ccactgggc
     841 ctcatggcca tggcctattt ccagatattc cgcaagctct ggggccgcca gatccccggc
    901 accacctcag cactggtgcg gaactggaag cgcccctcag accagctggg ggacctggag
    961 cagggcctga gtggagagcc ccagccccgg ggccgcgcct tcctggctga agtgaagcag
   1021 atgcgtgcac ggaggaagac agccaagatg ctgatggtgg tgctgctggt cttcgcctc
1081 tgctacctgc ccatcagcgt cctcaatgtc cttaagaggg tgttcgggat gttccgccaa
   1141 gccagtgacc gcgaagctgt ctacgcctgc ttcaccttct cccactggct ggtgtacgcc 1201 aacagcgctg ccaaccccat catctacaac ttcctcagtg gcaaattccg ggagcagttt 1261 aaggctgcct tctcctgctg cctgcctggc ctgggtccct gcggctctct gaaggcccct 1321 agtccccgct cctctgccag ccacaagtcc ttgccttgc agagccgatg ctccatctcc
   1381 aaaatctčtg agcatgtggt gctcaccagc gtcaccacag tgctgccctg agcgagggct
   1441 gccctggagg ctccggctcg ggggatctgc ccctacccct catggaaaga cagctggatg
   1501 tggtgaaagg ctgtggcttc agtcctgggt ttctgcctgt gtgactctgg ataagtcact
   1561 tcct
       ANSWER 120 OF 154 IFIPAT COPYRIGHT 2004 IFI on STN
 L5
 ΑN
        03913880 IFIPAT; IFIUDB; IFICDB
        PHENYL UREA AND PHENYL THIOUREA DERIVATIVES; PHENYL UREA AND PHENYL
 TT
        THIOUREA DERIVATIVES AND THEIR USE AS PHARMACEUTICALS
        Coulton Steven (GB); Johns Amanda (GB); Porter Roderick Alan (GB)
 ΙN
 PA
        SmithKline Beecham PLC GB (28684)
 PΙ
                             B1 20030722
        us 6596730
        wo 2000047580
                                   20000817
        US 2001-913228
AΙ
                                   20011205
        WO 2000-EP1142
                                   20000210
                                   20011205
                                                PCT 371 date
                                                PCT 102(e) date
                                   20011205
        GB 1999-3241
PRAI
                                   19990212
        GB 1999-26441
                                   19991108
FI
        US 6596730
                                   20030722
        Utility; Granted Patent - Utility, no Pre-Grant Publication
DT
FS
        CHEMICAL
        GRANTED
MRN
        012689
                    MFN: 0812
CLMN
L5
       ANSWER 121 OF 154 IFIPAT COPYRIGHT 2004 IFI on STN
        03666179 IFIPAT; IFIUDB; IFICDB
ΑN
TI
        PHENYLUREA AND PHENYLTHIO UREA DERIVATIVES:
                                                                     ***OREXTN***
           ***RECEPTORS***
                                  FOR SLEEP DISORDERS AND EATING DISORDERS
IN
        Johns Amanda (GB); Porter Roderick Alan (GB)
PA
        SmithKline Beecham PLC GB (28684)
PΙ
        US 6372757
                             B1 20020416
        WO 9958533
                                   19991118
ΑI
        US 2000-700002
                                   20001108
        WO 1999-EP3100
                                   19990504
                                   20001208
                                               PCT 371 date
                                   20001208
                                               PCT 102(e) date
        GB 1998-9972
PRAT
                                   19980508
        GB 1998-9988
                                  19980508
        GB 1999-3268
                                  19990212
FΙ
        US 6372757
                                  20020416
DT
        Utility
FS
        CHEMICAL
        GRANTED
MRN
        011439
                   MFN: 0412
CLMN
```

```
L5
     ANSWER 122 OF 154 IMSDRUGNEWS COPYRIGHT 2004 IMSWORLD on STN
ACCESSION NUMBER:
                       1999:2482 IMSDRUGNEWS
TITLE:
                       gene discovery, narcolepsy Stanford University gene
                       identified
SOURCE:
                       R&D Focus Drug News ( ***30 Aug 1999***
WORD COUNT:
L5
     ANSWER 123 OF 154 JICST-EPlus COPYRIGHT 2004 JST on STN
     1000402955 JICST-EPlus
ΑN
TI
     Structure-Activity Relationship Studies on the Novel Neuropeptide
        ***0rexin***
     ASAHI S; EGASHIRA S; MATSUDA M; IWAASA H; KANATANI A; OHKUBO M; IHARA M;
ΑU
     MORISHIMA H
     SAKURAI T
CS
     Banyu Tsukuba Res. Inst., Ibaraki, Jpn
     Univ. Tsukuba, Ibaraki, Jpn
     Pept Sci, (2000) vol. 1999, pp. 37-40. Journal Code: X0695A (Fig. 1, Tbl.
S0
      1, Ref. 10)
     ISSN: 1344-7661
CY
     Japan
DT
     Conference; Short Communication
LA
     English
STA
     New
L5
     ANSWER 124 OF 154 JICST-EPlus COPYRIGHT 2004 JST on STN
     980530656 JICST-EPlus
AN
        ***Orexins***
                               ***orexin***
                                                  ***receptors***
ΤI
                        and
                                                                     .Novel
     neuropeptides that control feeding behavior.
ΑU
     SAKURAI TAKESHI
     Univ. of Tsukuba, Inst. of Basic Med. Sci. Saibo Kogaku (Cell Technology), (1998) vol. 17, no. 6, pp. 864-865.
CS
S0
     Journal Code: Y0229A (Fig. 2, Ref. 2)
     ISSN: 0287-3796
CY
     Japan
DT
     Journal; Commentary
LA
     Japanese
STA
     New
L5
     ANSWER 125 OF 154 LIFESCI
                                      COPYRIGHT 2004 CSA on STN
     2000:67847
ΑN
                  LIFESCI
TT
     Linkage and physical mapping of the porcine prepro- ***orexin***
                                                                               gene
     Malek, M.; Marklund, S.; Dyer, C.; Matteri, R.; Rothschild, M. Department of Animal Science, 2255H Kildee Hall, Iowa State University,
ΑU
CS
     Ames, IA 50011, USA; E-mail: mfrothsc@iastate.edu
S0
     Mammalian Genome [Mamm. Genome], ( ***20000400***
                                                             ) vol. 11, no. 4, pp.
     342-343
     ISSN: 0938-8990.
DT
     Journal
FS
     English
LA
L5
     ANSWER 126 OF 154
                             MEDLINE on STN
ΑN
     2003026155
                     MEDLINE
     PubMed ID: 12532767
DN
        ***Orexin*** --a view discovery in obese research.
TI
ΑU
     Sheng li ke xue jin zhan [Progress in physiology], (1) 47-9. Ref: 9
S0
                                                             ***(2000 Jan)***
                                                                                   31
     Journal code: 20730140R. ISSN: 0559-7765.
CY
DT
     Journal; Article; (JOURNAL ARTICLE)
     General Review; (REVIEW)
     (REVIEW, TUTORIAL)
LA
     Chinese
FS
     Priority Journals
EΜ
     200305
ED
     Entered STN: 20030121
     Last Updated on STN: 20030524
     Entered Medline: 20030523
L5.
     ANSWER 127 OF 154
                             MEDLINE on STN
AN
     2001120042
                     MEDLINE
DN
     PubMed ID: 11212299
           ***hypocretins*** / ***orexins*** : novel hypothalamic
TI
     neuropeptides involved in different physiological systems.
```

```
de Lecea L; Sutcliffe J G
      Department of Molecular Biology, The Scripps Research Institute, La Jolla, California 92037, USA.. llecea@scripps.edu
CS
      GM32355 (NIGMS)
NC
      MH58543 (NIMH)
      NS33396 (NINDS)
      Cellular and molecular life sciences: CMLS,
SO
                                                          ***(1999 Oct 30)***
      (5-6) 473-80.
                      Ref: 50
      Journal code: 9705402. ISSN: 1420-682X.
CY
      Switzerland
      Journal; Article; (JOURNAL ARTICLE)
DT
      General Review; (REVIEW)
      (REVIEW, TUTORIAL)
      English
IΑ
FS
      Priority Journals
EΜ
      200102
ED
      Entered STN: 20010322
      Last Updated on STN: 20010322
      Entered Medline: 20010215
L5
      ANSWER 128 OF 154
                              MEDLINE on STN
      2001105669
AN
                      MEDLINE
DN
      PubMed ID: 11099941
TI
      Forty winks: molecular basis of sleep disorders.
ΑIJ
      Sansom C
     Molecular medicine today,
                                     ***(2000 Dec)***
S0
                                                          6 (12) 453.
      Journal code: 9508560. ISSN: 1357-4310.
CY
      ENGLAND: United Kingdom
DT
     News Announcement
      English
LA
      Priority Journals
FS
EΜ
      200102
      Entered STN: 20010322
ED
      Last Updated on STN: 20020420
     Entered Medline: 20010208
L5
     ANSWER 129 OF 154
                              MEDLINE on STN
ΑN
     2001023913
                      MEDLINE
DN
     PubMed ID: 10880509
            ***orexin***
TI
                            OX1
                                    ***receptor***
                                                       activates a novel Ca2+ influx
     pathway necessary for coupling to phospholipase C.
ΑU
     Lund P E; Shariatmadari R; Uustare A; Detheux M; Parmentier M; Kukkonen J
     P; Akerman K E
     Department of Physiology, Division of Cell Physiology, Uppsala University,
CS
     Biomedical Centre (BMC), P.O. Box 572, S-75123 Uppsala, Sweden. Journal of biological chemistry, ***(2000 Oct 6)*** 275 (40
S0
                                                                    275 (40) 30806-12.
     Journal code: 2985121R. ISSN: 0021-9258.
CY
     United States
     Journal; Article; (JOURNAL ARTICLE)
DT
LA
     English
FS
     Priority Journals
EΜ
     200011
ED
     Entered STN: 20010322
     Last Updated on STN: 20010322
     Entered Medline: 20001113
L5
     ANSWER 130 OF 154
                              MEDLINE on STN
ΑN
     2000126302
                      MEDLINE
DN
     PubMed ID: 10657511
ΤI
     Two important systems in energy homeostasis: melanocortins and
     melanin-concentrating hormone.
     Tritos N A; Maratos-Flier E
     Joslin Diabetes Center, Boston, MA, 02215, USA. Neuropeptides, ***(1999 Oct)*** 33 (5) 339-
CS
S0
     Neuropeptides, ***(1999 Oct)*** 33
Journal code: 8103156. ISSN: 0143-4179.
                                              33 (5) 339-49. Ref: 98
CY
     SCOTLAND: United Kingdom
DT
     Journal; Article; (JOURNAL ARTICLE)
     General Review: (REVIEW)
     (REVIEW, ACADEMIC)
     English
     Priority Journals
FS
ΕМ
     200006
ΕD
     Entered STN: 20000616
     Last Updated on STN: 20000616
     Entered Medline: 20000602
```

```
L5
      ANSWER 131 OF 154
                             MEDLINE on STN
ΑN
      2000081637
                     MEDLINE
      PubMed ID: 10615891
DN
        ***Hypocretin***
TT
                            ( ***orexin*** ) deficiency in ***human***
      narcolepsy.
      Comment in: Lancet. 2000 Apr 8;355(9211):1274-5. PubMed ID: 10770327
      Comment in: Lancet. 2000 Jan 1;355(9197):6. PubMed ID: 10615881
      Comment in: Lancet. 2000 Mar 4;355(9206):847. PubMed ID: 10711955
      Nishino S; Ripley B; Overeem S; Lammers G J; Mignot E
ΑU
NC
      HL59601 (NHLBI)
      NS237724 (NINDS)
      NS33797 (NINDS)
                ***(2000 Jan 1)***
S0
                                     355 (9197) 39-40.
      Journal code: 2985213R. ISSN: 0140-6736.
CY
      ENGLAND: United Kingdom
DT
LA
      English
FS
      Abridged Index Medicus Journals; Priority Journals
EΜ
     200001
     Entered STN: 20000204
      Last Updated on STN: 20010815
      Entered Medline: 20000121
L5
     ANSWER 132 OF 154
                             MEDLINE on STN
     2000034069
AN
                     MEDLINE
      PubMed ID: 10568074
DN
ΤI
         ***Orexins***
                                ***orexin***
                                                  ***receptors*** ].
                         and
     Orexiny a orexinove receptory.
ΑU
     Kotaska K; Prusa κ
Ustav klinicke biochemie a patobiochemie 2. LF UK, Praha.
"**(1999 Aug)***
     Kotaska K; Prusa R
CS
SO
     48 (3) 119-21. Řef: 17
Journal code: 2984710R. ISSN: 1210-6313.
CY
      Czech Republic
DT
      Journal; Article; (JOURNAL ARTICLE)
      General Review; (REVIEW)
      (REVIEW, TUTORIAL)
LA
     Czech
FS
     Priority Journals
EΜ
     199912
ED
     Entered STN: 20000113
     Last Updated on STN: 20000113
     Entered Medline: 19991215
L5
     ANSWER 133 OF 154
                            MEDLINE on STN
ΑN
     1999409631
                     MEDLINE
DN
     PubMed ID: 10481905
                                    ***hypocretins***
TI
     Narcolepsy: a key role for
                                                         ( ***orexins***
     Comment on: Cell. 1999 Aug 20;98(4):437-51. PubMed ID: 10481909
CM
     Comment on: Cell. 1999 Aug 6;98(3):365-76. PubMed ID: 10458611
     Siegel J<sub>M</sub>
ΑU
CS
     Neurobiology Research, Veterans Administration Medical Center, North
     Hills, California 91343, USA.
Cell, ***(1999 Aug 20)***
50
                                     98 (4) 409-12.
     Journal code: 0413066. ISSN: 0092-8674.
CY
     United States
DT
     Commentary
     Journal; Article; (JOURNAL ARTICLE)
     General Review; (REVIEW)
     (REVIEW, TUTORIAL)
     English
LA
FS
     Priority Journals
EΜ
     199909
FD
     Entered STN: 19991005
     Last Updated on STN: 20020420
     Entered Medline: 19990923
L5
     ANSWER 134 OF 154
                            MEDLINE on STN
ΑN
     1999382839
                     MEDLINE
DN
     PubMed ID: 10453467
     Novel neurotransmitters for sleep and energy homeostasis.
TT
     Sutcliffe J G; de Lecea L
ΑU
     Department of Molecular Biology, Scripps Research Institute, La Jolla,
CS
     California 92037, USA.
NC
     GM32355 (NIGMS)
```

```
MH58543 (NIMH)
NS33396 (NINDS)
      Results and problems in cell differentiation,
                                                        ***(1999)***
                                                                         26 239-55.
      Ref: 30
      Journal code: 0173555. ISSN: 0080-1844.
CY
      GERMANY: Germany, Federal Republic of
DT
      Journal; Article; (JOURNAL ARTICLE)
      General Review; (REVIEW)
      (REVIEW, ACADEMIC)
      English
LA
FS
      Priority Journals
      199910
EΜ
ED
      Entered STN: 19991014
      Last Updated on STN: 19991014
      Entered Medline: 19991006
L5
      ANSWER 135 OF 154
                             MEDLINE on STN
      1999106186
AN
                     MEDLINE
DN
      PubMed ID: 9889512
         ***Orexins*** --new hypothalamic peptides that stimulate appetite].
TI
      Orexiner--nya hypotalamiska peptider som stimulerar aptit.
ΑU
      Meister B; Hakansson M L
     Institutionen for neurovetenskap, Karolinska institutet, Stockholm. Lakartidningen, ***(1998 Dec 16)*** 95 (51-52) 5885-7. Ref: 10
CS
SO
                                                95 (51-52) 5885-7. Ref: 10
      Journal code: 0027707. ISSN: 0023-7205.
CY
DΤ
      Journal; Article; (JOURNAL ARTICLE)
      General Review; (REVIEW)
      (REVIEW, TUTORIAL)
      Swedish
LA
FS
      Priority Journals
EΜ
      199901
ED
      Entered STN: 19990209
     Last Updated on STN: 19990209
     Entered Medline: 19990125
      ANSWER 136 OF 154 PASCAL COPYRIGHT 2004 INIST-CNRS. ALL RIGHTS
L5
       RESERVED. on STN
AN
      2000-0356529
                       PASCAL
CP
      Copyright_.COPYRGT. 2000 INIST-CNRS. All rights reserved.
      Reciprocal relation of food intake and sympathetic activity:
TIEN
      experimental observations and clinical implications
      Endocrinology of obesity: basic, clinical and therapeutic aspects
ΑU
      BRAY G. A.
      PASQUALI Renato (ed.)
      Pennington Biomedical Research Center, Baton Rouge, LA 70808, United
CS
      International journal of obesity. Supplement,
SO
                                                         ***(2000)***
                                                                         .24(2)
      S8-S17, 101 refs.
      Conference: Endocrinology of Obesity: Basic, Clinical and Therapeutic
      Aspects. Satellite Symposium, Venice (Italy), Sep 1998
      ISSN: 1359-6373
DT
      Journal; Conference
BL
      Analytic
      United Kingdom
CY
      Enalish
LA
      INIST-18243S, 354000090663260030
ΑV
L5
      ANSWER 137 OF 154
                          PHARMAML COPYRIGHT 2004 MARKETLETTER on STN
ΑN
      1648228
                 PHARMAML
      New drug discovery: is genomics delivering? asks Lehman Brothers
ΤI
SO
      Marketletter August 16, 1999
DT
      Newsletter
WC
      1420
L5
     ANSWER 138 OF 154 PHIN COPYRIGHT 2004 PJB on STN
ΑN
     1999:14964
                 PHIN
DN
     500633978
DED
     20 Aug 1999
     New research offers hope in sleep
TI
     Scrip ( ***1999*** ) No. 2465 p21
S0
DT
     Newsletter
FS
     FULL
L5
     ANSWER 139 OF 154 PROMT COPYRIGHT 2004 Gale Group on STN
```

ACCESSION NUMBER: 2000:889662 PROMT TITLE: SCIÈNCE SCAN RECOMBINANT DRUG SAVED LIVES, LIMBS OF SEPTIC SHOCK PATIENTS IN LARGE CONTROLLED CLINICAL TRIAL. SOURCE: BIOWORLD Today, ( ***16 Oct 2000*** ) Vol. 11, No. 200. PUBLISHER: American Health Consultants, Inc. DOCUMENT TYPE: Newsletter English LANGUAGE: WORD COUNT: 958 *FULL TEXT IS AVAILABLE IN THE ALL FORMAT* L5 ANSWER 140 OF 154 PROMT COPYRIGHT 2004 Gale Group on STN ACCESSION NUMBER: 2000:773694 PROMT TITLE: Neurocrine Biosciences, Inc. Announces Nature Medicine ***Hypocretin*** Narcolepsy Publication; Absence of is Seen to be a Cause of Narcolepsy. SOURCE: Business Wire, ( ***29 Aug 2000*** ) pp. 1023. **PUBLISHER: Business Wire** Newsletter DOCUMENT TYPE: LANGUAGE: English WORD COUNT: 855 *FULL TEXT IS AVAILABLE IN THE ALL FORMAT* ANSWER 141 OF 154 PROMT COPYRIGHT 2004 Gale Group on STN ACCESSION NUMBER: 2000:642390 PROMT Study of Fat-Reducing Protein Opens New Path Toward Obesity TITLE: Treatment. PR Newswire, ( ***26 Jul 2000*** ) pp. 8389. SOURCE: **PUBLISHER:** PR Newswire Association, Inc. DOCUMENT TYPE: Newsletter LANGUAGE: English WORD COUNT: 759 *FULL TEXT IS AVAILABLE IN THE ALL FORMAT* L5 ANSWER 142 OF 154 PROMT COPYRIGHT 2004 Gale Group on STN ACCESSION NUMBER: 1999:595824 PROMT SmithKline Beecham Scientists Identify TITLE: ***Receptor*** For Potent Vasoconstricting Hormone. PR Newswire, ( ***15 Sep 1999*** ) pp. 8053. SOURCE: **PUBLISHER:** PR Newswire Association, Inc. DOCUMENT TYPE: Newsletter LANGUAGE: English WORD COUNT: 657 *FULL TEXT IS AVAILABLE IN THE ALL FORMAT* L5 ANSWER 143 OF 154 PROMT COPYRIGHT 2004 Gale Group on STN ACCESSION NUMBER: 1999:567548 PROMT Narcolepsy Gene Identified in Dogs. Applied Genetics News, ( ***August 1999*** ) Vol. 20, No. TITLE: SOURCE: 1. ISSN: 0271-7107. PUBLISHER: Business Communications Company, Inc. DOCUMENT TYPE: Newsletter LANGUAGE: English WORD COUNT: 273 *FULL TEXT IS AVAILABLE IN THE ALL FORMAT* L5 ANSWER 144 OF 154 PROMT COPYRIGHT 2004 Gale Group on STN ACCESSION NUMBER: 1999:547980 PROMT TITLE: New drug discovery: is genomics delivering? asks Lehman Brothers. SOURCE: Marketletter, (ISSN: 0951-3175 ***23 Aug 1999*** ) .

L5 ANSWER 145 OF 154 PROMT COPYRIGHT 2004 Gale Group on STN

Newsletter

English

1417

Marketletter Publications Ltd.

*FULL TEXT IS AVAILABLE IN THE ALL FORMAT*

**PUBLISHER:** 

LANGUAGE:

WORD COUNT:

DOCUMENT TYPE:

```
ACCESSION NUMBER:
                     1999:511958 PROMT
TITLE:
                     TOO MUCH SLEEP CAN BE HAZARDOUS TO HEALTH.
AUTHOR(S):
                     Leff, David N.
                     BIOWORLD Today, ( ***10 Aug 1999*** ) vol. 10, No. 153.
SOURCE:
PUBLISHER:
                     American Health Consultants, Inc.
DOCUMENT TYPE:
                     Newsletter
LANGUAGE:
                     English
WORD COUNT:
                     1006
                     *FULL TEXT IS AVAILABLE IN THE ALL FORMAT*
     ANSWER 146 OF 154 PROMT COPYRIGHT 2004 Gale Group on STN
L5
ACCESSION NUMBER:
                     1999:500436 PROMT
TITLE:
                     UT Southwestern Researchers Create Mice With Narcolepsy.
SOURCE:
                     PR Newswire, ( ***5 Aug 1999*** ) pp. 6759.
PUBLISHER:
                     PR Newswire Association, Inc.
DOCUMENT TYPE:
                     Newsletter
LANGUAGE:
                     English
WORD COUNT:
                     385
                     *FULL TEXT IS AVAILABLE IN THE ALL FORMAT*
     ANSWER 147 OF 154 PROMT COPYRIGHT 2004 Gale Group on STN
L5
ACCESSION NUMBER:
                     1999:497515 PROMT
TITLE:
                     Stanford Researchers Nab Gene for Sleep Disorder.
SOURCE:
                     Business Wire, ( ***5 Aug 1999*** ) pp. 312.
PUBLISHER:
                     Business Wire
DOCUMENT TYPE:
                     Newsletter
                     Enalish
LANGUAGE:
WORD COUNT:
                     1146
                     *FULL TEXT IS AVAILABLE IN THE ALL FORMAT*
     ANSWER 148 OF 154 SCISEARCH COPYRIGHT (c) 2004 The Thomson Corporation.
L5
ΑN
     2000:104862 SCISEARCH
GA
     The Genuine Article (R) Number: 279MU
TT
       ***Hypocretin***
                              ***orexin*** ) deficiency in
                                                               ***human***
     narcolepsy
ΑU
     Nishino S; Ripley B; Overeem S; Lammers G J; Mignot E (Reprint)
     STANFORD ÚNIV, SCH MED, DEPT PSYCHIAT, CTR NARCOLEPSY, STANFORD, CA 94305
CS
     (Reprint); STANFORD UNIV, SCH MED, DEPT PSYCHIAT, CTR NARCOLEPSY,
     STANFORD, CA 94305; LEIDEN UNIV, MED CTR, DEPT NEUROL & CLIN NEUROPHYSIOL,
     NL-2300 RC LEIDEN, NETHERLANDS
CYA
     USA; NETHERLANDS
     LANCET, ( ***1 JAN 2000*** ) Vol. 355, No. 9197, pp. 39-40. Publisher: LANCET LTD, 84 THEOBALDS RD, LONDON WC1X 8RR, ENGLAND.
SO
     ISSN: 0140-6736
DT
     Article; Journal
     LIFE; CLIN
FS
LA
     English
REC
     Reference Count: 5
     *ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS*
L5
     ANSWER 149 OF 154 SCISEARCH COPYRIGHT (c) 2004 The Thomson Corporation.
AN
     1999:853265 SCISEARCH
GA
     The Genuine Article (R) Number: 252ER
     Stimulation of feeding behavior and food consumption in the goldfish,
     Carassius auratus, by
                             ***orexin*** -A and
                                                      ***orexin***
     Volkoff H; Bjorklund J M; Peter R E (Reprint)
ΑU
     UNIV ALBERTA, DEPT BIOL SCI, EDMONTON, AB T6G 2E9, CANADA (Reprint); UNIV
CS
     ALBERTA, DEPT BIOL SCI, EDMONTON, AB T6G 2E9, CANADA
CYA
                        ***6 NOV 1999*** ) Vol. 846, No. 2, pp. 204-209.
     BRAIN RESEARCH, (
     Publisher: ELSEVIER SCIENCE BV, PO BOX 211, 1000 AE AMSTERDAM,
     NETHERLANDS.
     ISSN: 0006-8993
DT
     Article; Journal
FS
     LIFE
LA
     English
REC
     Reference Count: 25
     *ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS*
L5
     ANSWER 150 OF 154 USPATFULL ON STN
       2003:279117 USPATFULL
ΑN
ΤI
       Hypothalamus-specific polypeptides
```

```
IN
        Sutcliffe, J. Gregor, Cardiff, CA, United States
        Gautvik, Kaare M., Oslo, NORWAY
        De Lecea, Luis, Del Mar, CA, United States
        Bloom, Floyd E., San Diego, CA, United States
        Danielson, Patria E., San Diego, CA, United States
Gautvik, Vigdis T., Oslo, NORWAY
Kilduff, Thomas S., Menlo Park, CA, United States
Foye, Pamela E., San Diego, CA, United States
PΑ
        The Scripps Research Institute, La Jolla, CA, United States (U.S.
        corporation)
PΙ
        US 6635479
                             в1
                                   20031021
        wo 9805352
                     19980212
                                                                             <--
        US 1999-230896
                                   19990202 (9)
AΙ
        wo 1997-us13657
                                   19970801
        US 1996-23220P
PRAI
                              19960802 (60)
        Utility
DT
        GRANTED
FS
LN.CNT 3050
INCL
        INCLM: 435/325.000
        INCLS: 435/320.100; 536/023.100; 536/023.500
NCL
               435/325.000
        NCLS:
                435/320.100; 536/023.100; 536/023.500
IC
        [7]
        ICM: C07H021-04
        ICS: C12N015-00; C12N015-09; C12N005-00; C12N005-02 536/23.1; 536/22.1; 536/23.5; 530/300; 530/350; 435/320.1; 435/325
EXF
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
      ANSWER 151 OF 154 USPATFULL ON STN
L5
ΑN
        2003:13320 USPATFULL
                  ***orexin***
TI
                                   ***receptor***
                                                        antagonists
        Irving, Elaine Alison, Bengeo, UNITED KINGDOM
IN
        Sanger, Gareth John, Sawbridgeworth, UNITED KINGDOM
        SmithKline Beecham p.l.c., Brentford, UNITED KINGDOM (non-U.S.
PA
        corporation)
        US 6506774
                             в1
                                   20030114
        WO 2000047284 20000817
        US 2001-913230
ΔΤ
                                   20011130 (9)
        WO 2000-EP1147
                                   20000210
                              19990212
PRAI
        GB 1999-3265
        GB 1999-3278
                              19990212
        GB 1999-3282
                              19990212
        GB 1999-3284
                              19990212
        GB 1999-6061
                              19990317
DT
        Utility
FS
        GRANTED
LN.CNT 405
INCL
        INCLM: 514/311.000
        INCLS: 514/312.000; 514/313.000
NCL
        NCI M:
                514/311.000
                514/312.000; 514/313.000
        NCLS:
IC
        [7]
        ICM: A61K031-47
EXF
        514/311; 514/312; 514/313
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
L5
      ANSWER 152 OF 154 WPIDS COPYRIGHT 2004 THE THOMSON CORP ON STN
     2000-588952 [56]
AN
                           WPIDS
DNC
     C2000-175936
     Obesity treatment comprises administering N-(4-phenoxyphenyl)-oxamic acid
     derivatives or related compounds.
DC
     B05
IN
     CORNELIUS, P; HARGROVE, D M; MORGAN, B P; SWICK, A G; HARGROVE, D
PA
      (PFIZ) PFIZER PROD INC; (CORN-I) CORNELIÚS P: (HARG-Í) HARGROVÉ D:
      (MORG-I) MORGAN B P; (SWIC-I) SWICK A G; (PFIZ) PFIZER INC
CYC
     33
PΙ
     EP 1036564
                       A1 20000920 (200056)* EN
                                                     22
                                                            A61K031-225
          R: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT
             RO SE SI
     AU 2000016353
                          20000907 (200056)
                                                            A61K031-167
                                                                             <--
                       A1 20000901 (200059)
     CA 2299972
                                                ΕN
                                                            A61K031-21
                                                                             <--
                       A 20000919 (200060)
     JP 2000256190
                                                     15
                                                            A61K031-167
                                                                             <--
     HU 2000000921
                       A2 20001228 (200111)
                                                            A61K031-185
                                                                             <--
     KR 2001006712
                       Α
                          20010126 (200152)
                                                            A61K031-196
     ZA 2000001000
                       Α
                          20011031 (200173)
                                                     41
                                                            C07C000-00
     NZ 503122
                          20011130 (200207)
```

A61K031-24

```
A1 20020321 (200224)#
B2 20030429 (200331)
B 20030124 (200339)
      US 2002035153
                                                             A61K031-195
      US 6555578
                                                             A61K031-24
      KR 368354
                                                             A61K031-196
      CA 2299972
                           20030819 (200357)
                        C
                                                ΕN
                                                             A61K031-21
      EP 1036564 A1 EP 2000-300830 20000203; AU 2000016353 A AU 2000-16353
 ADT
      20000211; CA 2299972 A1 CA 2000-2299972 20000229; JP 2000256190 A JP
      2000-49507 20000225; HU 2000000921 A2 HU 2000-921 20000228; KR 2001006712
      A KR 2000-9860 20000228; ZA 2000001000 A ZA 2000-1000 20000229; NZ 503122 A NZ 2000-503122 20000229; US 6344481 B1 Provisional US 1999-122015P 19990301, US 2000-488110 20000120; US 2002035153 A1 Div ex US 2000-488110
      20000120, US 2001-978980 20011016; US 6555578 B2 Provisional US
      1999-122015P 19990301, Div ex US 2000-488110 20000120, US 2001-978980
      20011016; KR 368354 B KR 2000-9860 20000228; CA 2299972 C CA 2000-2299972
      20000229
      US 6555578 B2 Div ex US 6344481; KR 368354 B Previous Publ. KR 2001006712
 FDT
 PRAI US 1999-122015P
                              19990301; US 2000-488110
                                                                20000120:
      US 2001-978980
                              20011016
 IC
      ICM A61K031-167; A61K031-185; A61K031-195; A61K031-196; A61K031-21;
            A61K031-225; A61K031-24; C07C000-00
            A61K031-192; A61K031-235; A61K045-00; A61P003-04; A61P043-00;
            C07D000-00
15
      ANSWER 153 OF 154 WPIDS
                                  COPYRIGHT 2004 THE THOMSON CORP on STN
      2000-105551 [09]
AN
                           WPIDS
DNC
      C2000-031609
      New phenyl urea and phenylthio urea derivatives useful as
                                                                         ***orexin***
      antagonists for treating e.g. obesity, insomnia, schizophrenia, manic
      depression and diabetes.
DC
      B02
      JOHNS, A; PORTER, R A
ΙN
      (SMIK) SMITHKLINE BEECHAM PLC
PA
      87
CYC
PΙ
      wo 9958533
                        A1 19991118 (200009)* EN
                                                      33
                                                            C07D471-04
         RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL
              OA PT SD SE SL SZ UG ZW
          W: AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB
              GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU
              LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR
              TT UA UG US UZ VN YU ZA ZW
      AU 9940377
                       A 19991129 (200018)
                                                            C07D471-04
                                                                             <--
      EP 1075478
                       A1 20010214 (200111)
                                                            C07D471-04
          R: BE CH DE ES FR GB IT LI NL
372757 B1 20020416 (200232)
      us 6372757
                                                            A61K031-435
      EP 1075478
                       B1 20030416 (200328)
                                                ΕN
                                                            C07D471-04
          R: BE CH DE ES FR GB IT LI NL
                       E 20030522 (200341)
      DE 69906960
                                                            C07D471-04
      JP 2003522101
                          20030722 (200350)
                       W
                                                            C07D471-04
      ES 2196806
                      T3 20031216 (200413)
                                                            C07D471-04
ADT
     WO 9958533 A1 WO 1999-EP3100 19990504; AU 9940377 A AU 1999-40377
      19990504; EP 1075478 A1 EP 1999-923540 19990504, WO 1999-EP3100 19990504
      US 6372757 B1 WO 1999-EP3100 19990504, US 2000-700002 20001108; EP 1075478
     B1 EP 1999-923540 19990504, WO 1999-EP3100 19990504; DE 69906960 E DE 1999-606960 19990504, EP 1999-923540 19990504, WO 1999-EP3100 19990504;
     2003522101 W WO 1999-EP3100 19990504, JP 2000-548337 19990504; ES 2196806
     T3 EP 1999-923540 19990504
     AU 9940377 A Based on WO 9958533; EP 1075478 A1 Based on WO 9958533; US
     6372757 B1 Based on WO 9958533; ÉP 1075478 B1 Based on WO 9958533; DE
     69906960 E Based on EP 1075478, Based on WO 9958533; JP 2003522101 W Based
     on WO 9958533; ES 2196806 T3 Based on EP 1075478
PRAI GB 1999-3268
                             19990212; GB 1998-9972
                                                               19980508;
     GB 1998-9988
                             19980508
          A61K031-435; C07D471-04
A61K031-4375; A61K031-44; A61P003-04; A61P015-00; A61P025-00;
     ICM
           A61P025-04; A61P025-18; A61P025-20; A61P025-22; A61P025-24;
           A61P043-00
    C07D221:00; C07D221:00, C07D471-04; C07D221:00, C07D471-04; C07D221:00,
ICI
           C07D471-04
L5
     ANSWER 154 OF 154 WPIDS
                                 COPYRIGHT 2004 THE THOMSON CORP on STN
     1999-315250 [27]
ΑN
                          WPIDS
DNC
     C1999-093223
     Composition for treating obesity and diabetes comprises a specific beta-3
ΤI
     agonist and an anorectic agent.
DC
     B02 B03 C02
```

us 6344481

DOW, R L

IN

B1 20020205 (200211)

A61K031-24

```
PA
      (PFIZ) PFIZER PROD INC
CYC
      30
ΡI
      EP 920864
                         A1 19990609 (199927)* EN
                                                         20
                                                                  A61K031-44
           R: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT
              RO SE SI
                         A 19990624 (199936)
A2 19990830 (199940)
A 19990824 (199944)
      AU 9896055
                                                                  A61K031-44
      HU 9802795
                                                                  A61K031-44
                                                                                     <--
      JP 11228447
                                                           17
                                                                  A61K045-00
                                                                                     <--
      CA 2255318
                         A1 19990603 (199947)
                                                    ΕN
                                                                  A61K031-44
                                                                                    <--
      KR 99062718
                         A 19990726 (200043)
                                                                  A61K031-44
                                                                                    <--
ADT
      EP 920864 A1 EP 1998-309273 19981112; AU 9896055 A AU 1998-96055 19981202;
      HU 9802795 A2 HU 1998-2795 19981202; JP 11228447 A JP 1998-335819 19981126; CA 2255318 A1 CA 1998-2255318 19981201; KR 99062718 A KR
      1998-52532 19981202
PRAI US 1997-67268P
                               19971203
      ICM A61K031-44; A61K045-00
ICS A61K031-00; A61K031-13; A61K038-00; A61K038-22
STN INTERNATIONAL LOGOFF AT 15:56:22 ON 18 OCT 2004
```